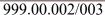


Safety Datasheets







999.00.004/005



999.00.006/007/019/020

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> www.easyspt.it info@easyspt.it

The information contained herein is based on the present state of knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a guarantee of the properties of the product



Safety Datasheet

Product code: 999.00.002 - 999.00.003 - 999.00.004 -999.00.005 - 999.00.006 - 999.00.007

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1 Compositions

In this document we describe the composition of our solutions, the precentages of each component contained, a CAS (Chemical Abstarcts Service) reference and the safety datasheet of each components contained. It's the user responsibility to read the following information and take the correct precautions for the use of these substances.

1.1 Gelatine with fuchsine (999.00.002 for 50ml and 999.00.003 for 250ml)

Composition for 1000ml:

Name	CAS n.	Unit	Quantity
Difco Gelatine	9000-70-8	gr	80
Glycerine 99,5%	56-81-5	ml	440
Liquid Phenol	108-95-2	ml	0,9
Distilled water		ml	as necessary

1.2 Transparent gelatine (999.00.004 for 50ml and 999.00.005 for 250ml)

Composition for 1000ml:

Name	CAS n.	Unit	Quantity
Difco Gelatine	9000-70-8	gr	80
Glycerine 99,5%	56-81-5	ml	440
Liquid Phenol	108-95-2	ml	0.9
Basic Fuchsine	632-99-5	ml	1,5
Distilled water		ml	as necessary

1.3 Silicone pure(999.00.006 for 50ml and 999.00.007 for 250ml)

Composition for 1000ml:

Name	CAS n.	Unit	Quantity
Silicone fluid 1.000.000 cSt	9016-00-6	gr	20

For this silicone we will provide pure silicon in quantity sufficient for the different volume 50ml or 250ml.

1.4 Silicone (999.00.0019 for 50ml and 999.00.020 for 250ml)

Composition for 1000ml:

Name	CAS n.	Unit	Quantity
Silicone fluid 1.000.000 cSt	9016-00-6	gr	20
Diethyl Ether	60-29-7	ml	1000



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2 Safety datasheet of single components.

GHS label elements Void

The product is not classified according to the Globally Harmonized System (GHS)

Signal word Void Hazard pictograms Void

NFPA ratings (scale 0-4) Hazard statements Void Hazard(s) identification

Classification of the substance or mixture

In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

Emergency telephone number:

information Department: Technical Service

Telephone: (410) 771 - 0100 or (800) 638 — 8663 Email Address: Technical_Services@bd.com

Manufacturer/Supplier: BD Diagnostic Systems 7 Loveton Circle

Application of the substance / the mixture Laboratory Chemicals

Details of the supplier of the safety data sheet

Catalog Number: 214340 Product Identifier:

Product Name: Gelatin

Sparks, MD 21152

2.1 Difco Gelatine

vPvB: Not applicable PBT: Not applicable Other hazards

(Contd. on page 2)

Results of PBT and vPvB assessment

HMIS ratings (scale 0-4)

Health = 0

Reactivity = 0 Flammability = 0 Reactivity = 0 Health = 0

Flammability = 0



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Safety Data Sheet acc. to OSHA HCS

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Extinguishing media

Suitable extinguishing agents CO2. ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or

Fire-fighting measures

No further relevant information available No further relevant information available.

Indication of any immediate medical attention and special treatment needed

Most important symptoms and effects, both acute and delayed

Information for doctor

After eye contact

alcohol resistant foam.

No further relevant information available. Special hazards arising from the substance or mixture

Advice for firefighters

Protective equipment: No special measures required

Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required Environmental precautions: Wipe up with damp sponge or mop.

Reference to other sections No dangerous substances are released Methods and material for containment and cleaning up: No special measures required

(Contd. on page 3)

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General information No special measures required.

After inhalation Supply fresh air, consult doctor in case of complaints.

After skin contact immediately wash with water and soap and rinse thoroughly.

Description of first aid measures

Additional information Risk phrases refer to section 15.

Dangerous Components: Void

Description: Mixture consisting of the following components

Chemical characterization: Mixture

Rinse opened eye for 15 minutes under running water. Then consult a doctor After swallowing if symptoms persist consult doctor.

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Information on basic physical and chemical properties

Appearance:

General Information

and

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Product Name: Gelatin

Handling and storage Precautions for safe handling No special measures required

No special measures required. Information about protection against explosions and fires:

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements

Store away from oxidizing agents. Information about storage in one common storage facility:

Specific end use(s) No further relevant information available Further information about storage conditions: None

Flash point:

Melting point/Melting range: Boiling point/Boiling range:

Change in condition

Odor:

Color: Form:

Beige Characteristic Solid. Powder

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see Section 7. Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Components with limit values that require monitoring at the workplace:

Exposure controls

Personal Protective Equipment

Additional information: The lists that were valid during the creation were used as basis

Breathing equipment: Not required

Protection of hands:

General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed

Chemical resistant gloves (i.e. nitrile, or equivalent)

Eye protection: Safety glasses

Body protection: Protective work clothing (lab coat)

(Contd. on page 4)

ility and read

Other information

No further relevant information available

Soluble

Solubility in / Miscibility with

Density:

Danger of explosion:

Product does not present an explosion hazard

Not determined

Flammability (solid, gaseous) Product is not flammable.

Not applicable Not determined Not determined

Reactivity No further relevant information available

Chemical stability

Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available.

ncompatible materials: Incompatible material: strong oxidizers.

Hazardous decomposition products: No dangerous decomposition products known.

Primary irritant effect: Information on toxicological effects Acute toxicity:

Toxicological information

on the skin: No irritating effect

on the eye: No imitating effect Sensitization: No sensitizing effects known

(Contd. on page 5)



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The product shows the following dangers according to internally approved calculation

Uncleaned packagings: Recommendation: Disposal must be made according to state and federal regulations. Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The product is not subject to OSHA classification according to internally approved calculation

IARC (International Agency for Research on Cancer)

Carcinogenic categories

methods for preparations:

Additional toxicological information:

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed

None of the ingredients is listed NTP (National Toxicology Program) None of the ingredients is listed.

- UN-Number
- DOT, ADN, IMDG, IATA

Void

Void

- UN proper shipping name DOT, ADN, IMDG, IATA
- Transport hazard class(es)
- DOT, ADN, IMDG, IATA

- Packing group
- DOT, IMDG, IATA
- Environmental hazards:
- Marine pollutant:

8

Void

Void

Special precautions for user

- Not applicable
- Transport in bulk according to Annex II of MARPOLT3/78 and the IBC Code Not applicable
- Transport/Additional information:
- If "void" appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.

UN "Model Regulation":

Zoid

Safety, health and environmental regulations/legislation specific for the substance or

13 Disposal considerations

identified.

Results of PBT and vPvB assessment
PBT: Not applicable.

Other information: Ecotoxical effects:

The ecological effects have not been thoroughly investigated, but currently none have been

vPvB: Not applicable.

Other adverse effects No further relevant information available

Behavior in environmental systems:

Mobility in soil No further relevant information available Bioaccumulative potential No further relevant information available Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

- SARA Section 355 (extremely hazardous substances)

SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. This product is not considered a RCRA hazardous waste.

(Contd. on page 6)

Smaller quantities can be disposed of with solid waste

Recommendation

Waste treatment methods

None of the ingredients is listed

(Contd. on page

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Carcinogenic categories None of the ingredients is listed.

None of the ingredients is listed

TLV (Threshold Limit Value established by ACGIH)

16 Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Hazard statements Void Signal word Void GHS label elements Void

Hazard pictograms Vold





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EINECS: European Inventory of Existing Commercial Chemical Substances ELINGS: European List of Northed Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA; National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

(Contd. on page 8)

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
DATA: International Air Transport Association
ACGIH, American Conference of Governmental Industrial Hygienists

Environmental, Health & Safety Created by Michael J. Spinazzola

Date of preparation / last revision 06/04/2016 / -Contact: Technical Service Representative

Abbreviations and acronyms:

Department issuing SDS:

herein, we can not guarantee that these are the only hazards that exist.

unknown hazards and should be used with caution. Although certain hazards are described suitability of any material is the sole responsibility of the user. All materials may present for the accuracy or completeness of the information contained herein. Final determination of Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever

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Product Name: Gelatin PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health T.V: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

(Contd. of page 6)

California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

California Proposition 65 - Chemicals known to cause reproductive toxicity for

None of the ingredients is listed

California Proposition 65 - Chemicals known to cause cancer

All ingredients are listed

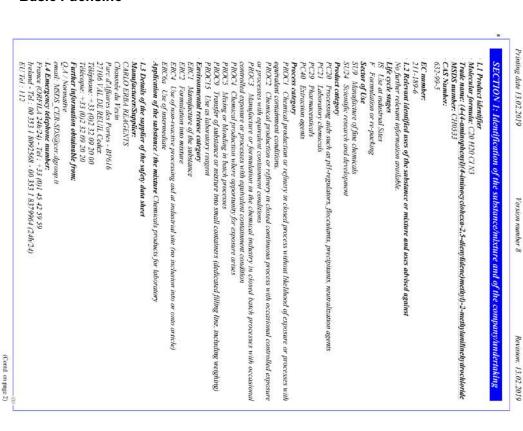
TSCA (Toxic Substances Control Act)

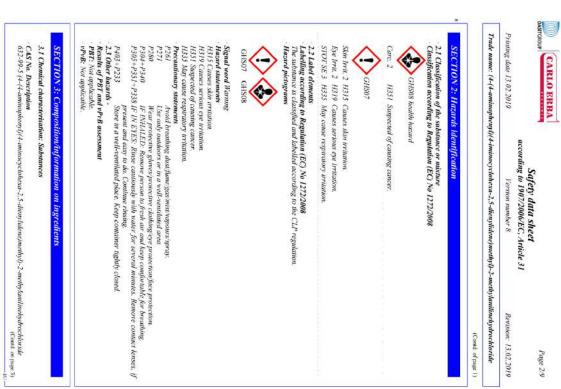
California Proposition 65 - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

None of the ingredients is listed

2.2 Basic Fuchsine







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Safety data sheet according to 1907/2006/EC, Article 31

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equivalent), and full protective gear. 5.1 Extinguishing media

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand,

MSHA/NIOSH (approved or

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam



according to 1907/2006/EC, Article 31 Safety data sheet

Printing date 13.02.2019

EC number: 211-189-6 Identification number(s,

4.1 Description of first aid measures

After inhalation: In case of unconsciousness place patient stably in side position for transportation

After skin contact:

SECTION 4: First

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Trade name: (4-(4-aminophenyl)(4-iminocyclohexa-2,5-dienylidene)methyl)-2-methylanilinehydrochloride Version number 8

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CARLO ERBA

according to 1907/2006/EC, Article 31 Safety data sheet

Date:

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Trade name: (4-(4-aminophenyl)(4-iminocyclohexa-2,5-dienylidene)methyl)-2-methylanilinehydrochloride

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

For fine dusts use a vacuum cleaner.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available

Information for doctor: Show the doctor this Material Safety Data Sheet

4.3 Indication of any immediate medical attention and special treatment needed

Call for a doctor immediately

After swallowing: After eye contact:

Do not induce vomiting; call for medical help immediately

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor Immediately wash with water and soap and rinse thoroughly. Wash contaminated clothing before reuse

No further relevant information available

See Section 13 for disposal information.

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Inform respective authorities in case of seepage into water course or sewage system. Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/ surface or ground water.

(Contd. on page 4)

Avoid contact with the eyes and skin

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

(Contd. on page 5)

Wash hands before breaks and at the end of work Immediately remove all soiled and contaminated clothing Keep away from foodstuffs, beverages and feed. General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals

For a short period use a filtering apparatus suitable for the danger In case of making of powders or aerosol, use an aqualung with approved filter 8.2 Exposure controls

Personal protective equipment:

DNELS

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: TLV not established

Additional information about design of technical facilities: No further data; see item 7.

7.3 Specific end use(s) No further relevant information available

Further information about storage conditions: None

Requirements to be met by storerooms and receptacles: No special requirements

Information about storage in one common storage facility: Not required.

7.2 Conditions for safe storage, including any incompatibilities

Keep respiratory protective device available

The product is not flammable

Keep unused containers tightly sealed.

Provide suction extractors if dust is formed

Prevent formation of dust

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities

Information about fire - and explosion protection:

Additional information: The lists valid during the making were used as basis Inhalative | DNEL (workers-local effects Acute) | 48 mg/m3 (fishes)

6.2 Environmental precautions:

Ensure adequate ventilation

Avoid formation of dust.

If dust/ aerosols is formed, use personal protective equipment

I Personal precautions, protective equipment and emergency procedures

General Information: Use proper personal protective equipment as indicated in Section 8.

Protective equipment: Do not inhale gases in case or fire or combustion.

Additional information Keep receptacles cool with water spray.

5.3 Advice for firefighters

In the absence of oxygen: Ammonia (NH3).

Carbon monoxide and carbon dioxide

Hydrogen chloride (HCl)

Sulphur dioxide (SO2) Nitrogen oxides (NOx)

In case of fire, the following can be released:

5.2 Special hazards arising from the substance or mixture Use fire extinguishing methods suitable to surrounding conditions

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md varies from manufacturer to manufacturer

^penetration time of glove material Thin, disposable gloves in PVC or PE

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be

Eye protection: observed. Printing date 13.02.2019

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according to 1907/2006/EC, Article 31 Version number 8

Trade name: (4-(4-aminophenyl)(4-iminocyclohexa-2,5-dienylidene)methyl)-2-methylanilinehydrochloride

Trade name: (4-(4-aminophenyl)(4-iminocyclohexa-2,5-dienylidene)methyl)-2-methylanilinehydrochloride Revision: 13.02.2019 Printing date 13.02.2019

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Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

The selected respiratory protection must comply with standard EN 136/140/143/145/149 Use suitable respiratory protective device in case of insufficient ventilation.

The selected protective gloves have to satisfy the specifications of REGULATION (EU) 2016/425 and the standard EN 374 derived from it. Protection of hands:

degradation Selection of the glove material on consideration of the penetration times, rates of diffusion and the

degradation

Protection of hands:

Use suitable respiratory protective device in case of insufficient ventilation. The selected respiratory protection must comply with standard EN 1361140/143/145/149

longer exposure use self-contained respiratory protective device.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or

Selection of the glove material on consideration of the penetration times, rates of diffusion and the The selected protective gloves have to satisfy the specifications of REGULATION (EU) 2016/425 and the standard EN 374 derived from it.

Rubber gloves Avoid direct contact with the chemical/ the product/ the preparation by organisational measures Material of gloves

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality

Rubber gloves

Protective gloves

Material of gloves

Protective gloves

and varies from manufacturer to manufacturer The selection of the suitable gloves does not only depend on the material, but also on further marks of quality

Tighthy sealed goggles

Eye protection: observed. Penetration time of glove materia

Thin, disposable gloves in PVC or PE

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be

Body protection: Protective work clothing

Risk management measures Keep good industrial hygiene. In case of unintended release of the product: See section 6 of the Safety Data Sheet limitation and supervision of exposure into the environment

9.1 Information on basic physical and chemical properties Odour: Appearance: Colour: SECTION 9: Physical Form: Molecular weight **Odourless** Crystalline powder 337.85 g

Change in condition

Melting point/freezing point:

250 °C

Initial boiling point and boiling range: Undetermined

Not applicable

(Contd. on page 6)

Change in condition
 Melting point/freezing point:
 250 °C
 Melting point and boiling range: Undetermined.

Not conditionable.

Not applicable

(Contd. on page 6)

pH-value:

Not applicable. Not determined

Odour threshold:

pH-value:

Odour threshold:

Odourless

Crystalline powder

Not applicable. Not determined. 9.1 Information on basic physical and chemical properties

Molecular weight 337.85 g

SECTION 9: Physical

Risk management measures Keep good industrial hygiene.

In case of unintended release of the product: See section 6 of the Safety Data Sheet

Limitation and supervision of exposure into the environment

Body protection: Protective work clothing

Tighthy sealed goggles

Appearance:

Colour: Form:

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Trade name: (4-(4-aminophenyl)(4-iminocyclohexa-2,5-dienylidene)methyl)-2-methylanilinehydrochloride

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9.2 Other information Partition coefficient: n-octanol/water: Solubility in / Miscibility with Evaporation rate Relative density Density: Explosion limits: Explosive properties: Auto-ignition temperature: Decomposition temperature Flammability (solid, gas): Viscosity: apour density apour pressure: Dynamic: Upper: Kinematic: OWET. Not determined. Not determined. Not applicable. Not applicable.

No further relevant information available. Not determined. Not determined Not applicable. Not determined. Product does not present an explosion hazard Not applicable Not determined. Not determined. Not determined Product is not flammable. Vot applicable (Contd. of page 5)

Nitrogen oxides (NOx)

Skin corrosion/irritation

Serious eye damage/irritation Causes serious eye irritation Causes skin irritation.

Ingestion: It can be harmfull if swallowed.

May be harmful if inhaled. May cause respiratory tract irritation.

Harmful if inhaled. May cause respiratory tract irritation.

Other information (about experimental toxicology): No further relevant information available. **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met May cause respiratory irritation

(Contd. on page 7)

Disposal must be made according to official regulations

packaging waste.

Primary irritant effect: Acute toxicity Based on available data, the classification criteria are not met 11.1 Information on toxicological effects

SECTION 11: Toxicological inform

- 10.4 Conditions to avoid No further relevant information available

10.6 Hazardous decomposition products:

Carbon monoxide, Carbon dioxide Hydrogen chloride (HCl)

SECTION 10: Stabilit

10.2 Chemical stability

10.3 Possibility of hazardous reactions No dangerous reactions known.

and reactivity

10.1 Reactivity See 10.3

10.5 Incompatible materials: No further relevant information available

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications

Aspiration hazard Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met

STOT-single exposure

Suspected of causing cancer

May cause respiratory irritation

Germ cell mutagenicity Based on available data, the classification criteria are not met. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Reproductive toxicity Based on available data, the classification criteria are not met

However handle the product with the right care.

Additional toxicological information:

there is a suspect of carcinogenic activity: the animal experiments can not be easy extrapolated to humans?

12.1 Toxicity

Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available

Ecological information Not available

Other information: The product is hardly biodegradable.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available. Additional ecological information:

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Water danger class 3 (German Regulation) (Assessment by list): extremely hazardous for water General notes:

PBT: Not applicable 12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects No further relevant information available

PvB: Not applicable

13.1 Waste treatment methods

Recommendation

Reutilise if possible or contact a waste processors for recycling or safe disposal Must not be disposed together with household garbage. Do not allow product to reach sewage system

should contact the relevant authorities, or those companies legally authorized for elimination of waste.
2014/935/UE: Council Decision of 18 December 2014 amending the list of wastes contained in Decision waste. Their treatment and elimination of the domestic legislation of each country. So, in each case, you The European Union does not establish uniform rules for the disposal of chemical waste, which are special Waste disposal key:

Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste

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2000/532/EC

Directive 94/62/EC of the European Parliament and the Council of 20 December 1994 on packaging and same treatment of products The containers and packaging materials contaminated with dangerous substances or preparations, have the Uncleaned packaging:

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Trade name: (4-(4-aminophenyl)(4-iminocyclohexa-2,5-dienylidene)methyl)-2-methylanilinehydrochloride according to 1907/2006/EC, Article 31 Safety data sheet Version number 8

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14.4 Packing group ADR, IMDG, IATA

ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es) 14.2 UN proper shipping name ADR, ADN, IMDG, IATA

ADR, ADN, IMDG, IATA 14.1 UN-Number

Void

Void

UN "Model Regulation":

Void

Not applicable

Marpol and the IBC Code

14.7 Transport in bulk according to Annex II of

14.6 Special precautions for user

Marine pollutant: 14.5 Environmental hazards:

No

Void Void

Not applicable



Printing date 13.02.2019

Safety data sheet according to 1907/2006/EC, Article 31

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Safety data sheet

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according to 1907/2006/EC, Article 31

Revision: 13.02.2019

Trade name: (4-(4-aminophenyt)(4-iminocyclohexa-2,5-dienylidene)methyl)-2-methylanilinehydrochloride

port des marchandises

dangereuses par chemin

de fer (Regulations Concerning the

(Contd. of page 8)

Revision: 13.02.2019 Printing date 13.02.2019

Trade name: (4-(4-aminophenyl)(4-iminocyclohexa-2,5-dienylidene)methyl)-2-methylanilinehydrochloride Version number 8

Wash with solvents to be incinerated.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

(Contd of page 7)

Abbreviations and acronyms:

RID: Referent international concernat le transpot
International Transport of Dangerous Goods by Rail)
(CAO: International Civil Aviation Organisation
(CAO: International Civil Aviation Organisation)

RCB : Bask Charocterisation Ratio
ADR: Accord enropéen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

MEA: International Air Transport Association
GRS: Globally Harmonical System of Classification and Labelling of Chemicals
GRS: Clobally Harmonical Systems Commercial Chemical Substances
EMECS: European Internation of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society) BADG: International Maritime Code for Dangerous Goods

DNEL: Derived No-Effect Level (REACH)

vPv8: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion irritation – Category 2 Eye Irrit. 2: Serious eye damage eye irritation – Category 2

REACH, in latest valid version. STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006

Sources

Globally Harmonized System, GHS the latest valid version Regulation (EC) Nº 1272/2008 of the European Parliament and of the Council of 16 December 2008, CLP, in

* Data compared to the previous version altered.

The sections where alterations took place are marked with an asterisk in the left

ADR2019

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Merian - Metals and their compounds in the environment ChemDAT - Safety Data Sheets from E. Merck on CD-ROM Roth - Wassergefahrdende Stoffe Verschueren - Handbook of Environmental Data on Organic Chemicals

(Contd. on page 9)

NIOSH - Registry of Toxic Effects of Chemical Substances IUCLID (International Uniform Chemical Information Database) ECDIN (Environmental Chem. Data and Information Network) References

Department issuing SDS: Q.A./Normative

specific product features and shall not establish a legally valid contractual relationship.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any

SECTION 16: Other information

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. Waterhazard class: Water danger class 3 (Assessment by list): extremely hazardous for water

Information about limitation of use: -

Directive 2012/18/EU

SECTION 15: Regulator)

Named dangerous substances - ANNEX I Substance is not listed.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

1.4

Emergency telephone number

E-mail address Telephone

Emergency Phone #

2.3 Phenol

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according to Regulation (EC) No. 1907/2006

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Product identifiers

Phenol

Product Number Product name

SECTION 1: Identification of the substance/mixture and of the company/undertaking Version 6.2
Revision Date 24.10.2019
Print Date 05.12.2019
Print Date 05.12.2019
Print Date 05.12.2019
Print Date 05.12.2019

Identified uses

Relevant identified uses of the substance or mixture and uses advised against CAS-No. REACH No. Laboratory chemicals, Manufacture of substances 108-95-2 Sigma-Aldrich 01-2119471329-32-XXXX

Details of the supplier of the safety data sheet Company Merck Life Science S.r.I.

1.3

I-20149 MILANO Via Monte Rosa 93

٠. 800-789-767 (CHEMTREC Italia) +39-02-4555-7031 (CHEMTREC chiamate internazionali) +39 02-6610-1029 (Centro Antiveleni

Niguarda Ca' Granda - Milano

SECTION 2: Hazards identification

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 3), H301

2.1

Serious eye damage (Category 1), H318
Germ cell mutagenicity (Category 2), H341
Specific target organ toxicity - repeated exposure (Category 2), Nervous system, Kidney, Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Skin corrosion (Sub-category 1B), H314

Liver, Skin, H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

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the US and Canada The life science business of Merck operates as MilliporeSigma in

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the US and Canada

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Label elements

2.2

Labelling according Regulation (EC) No 1272/2008
Pictogram

H314 H301 + H311 + H331 Signal word Hazard statement(s)

Causes severe skin burns and eye damage. Suspected of causing genetic defects. Toxic if swallowed, in contact with skin or if inhaled Danger

May cause damage to organs (Nervous system, Kidney, Liver, Skin) through prolonged or repeated exposure.

Precautionary statement(s) P201 P280 P301 + P310 + P330 protection. Wear protective gloves/ protective clothing/ eye protection/ face Obtain special instructions before use.

P305 + P351 + P338 + P310 Supplemental Hazard P301 + P330 + P331 P303 + P361 + P353 IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. none IF ON SKIN (or hair): Take off immediately all contaminated IF SWALLOWED: Immediately call a POISON CENTER/doctor clothing. Rinse skin with water. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Rinse mouth

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at Vesicant., Rapidly absorbed through skin levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

Mixtures

Hydroxybenzene

3.2

Synonyms

Formula

Molecular weight C₆H₆O 94,11 g/mol

Component		Classification	Concentration
Phenoi			
CAS-No.	108-95-2	Acute Tox. 3; Skin Corr.	>= 90 - <=
EC-No.	203-632-7	1B; Eye Dam. 1; Muta. 2;	100 %
Index-No.	604-001-00-2	STOT RE 2; H301, H331,	0.0000000000000000000000000000000000000
Registration	01-2119471329-32-	H311, H314, H318, H341,	
number	XXXX	H373	
		Concentration limits:	
		>= 3 %: Skin Corr. 1B,	
		H314; 1 - < 3 %: Skin	
		Irrit. 2, H315; 1 - < 3 %:	

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5.1

Extinguishing media

For the full text of the H-Statements mentioned in this Section, see Section 16.

Eye Irrit. 2, H319;

SECTION 4: First aid measures

Description of first aid measures General advice

If breathed in, move person into fresh air. If not breathing, give artificial respiration Consult a physician. Show this safety data sheet to the doctor in attendance

water. Take victim immediately to hospital. Consult a physician.

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of In case of skin contact Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

If swallowed

mouth with water. Consult a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse

Most important symptoms and effects, both acute and delayed

he most important known symptoms and effects are described in the labelling (see section

Indication of any immediate medical attention and special treatment needed ᅙ data available

4. 3

2.2) and/or in section 11

4.2

SECTION 5: Firefighting measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the substance or mixture

Wear self-contained breathing apparatus for firefighting if necessary

υ 5.2

Advice for firefighters

Further information

Use water spray to cool unopened containers

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate

For personal protection see section 8.

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Environmental precautions

6.2

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Do not let product enter drains

Methods and materials for containment and cleaning up

6.3

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section Keep in suitable, closed containers for disposal.

Reference to other sections For disposal see section 13.

6.4

SECTION 7: Handling and storage

Precautions for safe handling

7.1

For precautions see section 2.2. electrostatic charge. Keep away from sources of ignition - No smoking. Take measures to Avoid contact with skin and eyes. Avoid inhalation of vapour or mist prevent the build up of

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent Conditions for safe storage, including any incompatibilities

7.2

Handle and store under inert gas. Light sensitive

Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

7.3

SECTION 8: Exposure controls/personal protection

Control parameters

8.1

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands Handle with gloves. Gloves must be inspected prior to use. Use proper glove

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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SECTION 9: Physical and chemical properties Information on basic physical and chemical properties

Splash contact

Minimum layer thickness: 0,11 mm Break through time: 120 min Material: Nitrile rubber Minimum layer thickness: 0,3 mm Break through time: 480 min

Material: butyl-rubber

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Upper/lower gas)

Upper explosion limit: 8,6 %(V) Lower explosion limit: 1,8 %(V)

explosive limits flammability or

Relative density

Vapour density Vapour pressure

No data available

No data available

1,060 g/cm3

Partition coefficient: Water solubility

No data available completely miscible

n-octanol/water

605°C

Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

If used in solution, or mixed with other substances, and under conditions which sales@kcl.de, test method: EN374 data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

customers. It should not be construed as offering an approval for any specific use differ from EN 374, contact the supplier of the CE approved gloves. This and safety officer familiar with the specific situation of anticipated use by our recommendation is advisory only and must be evaluated by an industrial hygienist

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Decomposition Auto-ignition

No data available

temperature temperature

Respiratory protection

at the specific workplace. be selected according to the concentration and amount of the dangerous substance Body Protection Complete suit protecting against chemicals, The type of protective equipment must

9.2

Other safety information

Oxidizing properties

No data available No data available

Explosive properties

Viscosity

No data available

No data available

components tested and approved under appropriate government standards such as Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) NIOSH (US) or CEN (EU). means of protection, use a full-face supplied air respirator. Use respirators and respirator cartridges as a backup to engineering controls. If the respirator is the sole

Control of environmental exposurePrevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

Colour: colourless, light yellow Form: clear, liquid

10.6 Hazardous decomposition products

In the event of fire: see section 5

Strong bases, Strong oxidizing agents, Strong acids

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

10.4 Conditions to avoid

No data available

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

10.5 Incompatible materials

Heat, flames and sparks.

10.2 Chemical stability

10.1 Reactivity

No data available

SECTION 10: Stability and reactivity

Odour Threshold No data available No data available No data available

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Odour Appearance

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Melting

Melting point/range: 38 - 43 °C

Initial boiling point point/freezing point 180 °C at 1013 hPa

and boiling range

Evaporation rate No data available 79 °C - closed cup

Flash point

Flammability (solid, No data available

Skin corrosion/irritation No data available

11.1 Information on toxicological effects SECTION 11: Toxicological information

Acute toxicity

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SECTION 12: Ecological information

No data available Serious eye damage/eye irritation

Respiratory or skin sensitisation No data available

Germ cell mutagenicity

IARC: Carcinogenicity No data available

No data available Reproductive toxicity No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Aspiration hazard No data available

Specific target organ toxicity - repeated exposure

No data available

Specific target organ toxicity - single exposure

RTECS: Not available Additional Information No data available

wheezing, laryngitis, Shortness of breath, Headache, Nausea and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation Material is extremely destructive to tissue of the mucous membranes and upper respiratory

13.1 Waste treatment methods

SECTION 13: Disposal considerations

disposal company. afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed This combustible material may be burned in a chemical incinerator equipped with an

SECTION 14: Transport information

Dispose of as unused product Contaminated packaging

14.1 UN number ADR/RID: 2821 IMDG: 2821

14.2 UN proper shipping name ADR/RID: PHENOL SOLUTION IATA: IMDG: PHENOL SOLUTION Phenol solution IATA: 2821

14.3 Transport hazard class(es) ADR/RID: 6.1 IMDG: 6.1

14.4 Packaging group IMDG: II

14.5 Environmental hazards ADR/RID: yes

ADR/RID: II

IMDG Marine pollutant: yes

IATA: no

IATA: II IATA: 6.1

14.6 Special precautions for user No data available

15.1 Safety, health and environmental regulations/legislation specific for the SECTION 15: Regulatory information

substance or mixture

dangerous substances, preparations and articles placing on the market and use of certain REACH - Restrictions on the manufacture, This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H301 H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled Toxic if swallowed

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12.6 Other adverse effects

Toxic to aquatic life with long lasting effects

levels of 0.1% or higher

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

12.4 Mobility in soil

No data available No data available 12.3 Bioaccumulative potential 12.2 Persistence and degradability

No data available No data available

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appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See Copyright 2018 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the H311 H314 H315 H318 H319 H331 H341 H373 The branding on the header and/or footer of this document may temporarily not visually www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional present state of our knowledge and is applicable to the product with regard to Further information match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact misbranding@sial.com. Suspected of causing genetic defects, May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. Toxic if inhaled. Causes serious eye damage. Causes severe skin burns and eye damage Toxic in contact with skin.



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2.4 Pure Silicone

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4. FIRST AID MEASURES Description of first aid measures

2.3

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture. Classification of the substance or mixture

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazards not otherwise classified (HNOC) or not covered by GHS - none

9016-00-6

No components need to be disclosed according to the applicable regulations

If breathed in, move person into fresh air. If not breathing, give artificial respiration

Wash off with soap and plenty of water In case of skin contact

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2.1

:

Company

USA

Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103

Details of the supplier of the safety data sheet

1.2

Identified uses

Relevant identified uses of the substance or mixture and uses advised against

9016-00-6 Sigma-Aldrich

Laboratory chemicals, Synthesis of substances

:

Product identifiers

Product Number

PHR1518

Polydimethylsiloxane

1. PRODUCT AND COMPANY IDENTIFICATION

SIGMA-ALDRICH

SAFETY DATA SHEET

In case of eye contact
Flush eyes with water as a precaution.

Emergency telephone number Emergency Phone #

2. HAZARDS IDENTIFICATION +1-703-527-3887 (CHEMTREC)

+1 800-325-5832 +1 800-325-5052

Revision Date 08/23/2017 Print Date 09/29/2018 5.2 5 42 4.3 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the substance or mixture

Indication of any immediate medical attention and special treatment needed No data available

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

Never give anything by mouth to an unconscious person. Rinse mouth with water

5. 3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary

6.4

Further information
No data available

6.1

6. ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.4 6.3 6.2 Reference to other sections For disposal see section 13. Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal No special environmental precautions required Environmental precautions

Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust vertilation at places where dust is formed.

For precautions see section 2.2.

7.

7. HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Store at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated Control parameters

8.1

Exposure controls Appropriate engineering controls General industrial hygiene practice. Components with workplace control parameters
Contains no substances with occupational exposure limit values

8.2

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Sigma-Aldrich - PHR1518 9.1 9. PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties 0 <u>a</u> 9 0 3 S 9 ō g ∄ Personal protective equipment Decomposition temperature Auto-ignition temperature Odour Relative density Vapour pressure Flash point Appearance Oxidizing properties Explosive properties Partition coefficient: n-octanol/water Water solubility Flammability (solid, gas) Evaporation rate Odour Threshold Viscosity Vapour density explosive limits Upper/lower flammability or boiling range Initial boiling point and Melting point/freezing Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Choose body protection in relation to the type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of potentive equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. No special environmental precautions required Control of environmental exposure Respiratory protection Body Protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Eye/face protection No data available 0.980 g/cm3 odourless No data available No data available No data available 7 hPa (5 mmHg) at 20 °C (68 °F) No data available 321 °C (610 °F) - closed cup No data available No data available No data available Colour: colourless No data available Form: clear, liquid Page 3 of 6 10.6 <u>10.4</u> 10.3 10.2 Sigma-Aldrich - PHR1518 11.1 Information on toxicological effects 11. TOXICOLOGICAL INFORMATION 10. STABILITY AND REACTIVITY Hazardous decomposition products Incompatible materials Other safety information No data available Conditions to avoid No data available Possibility of hazardous reactions Chemical stability Reactivity Serious eye damage/eye irritation No data available Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. In the event of fire: see section 5 No data available Germ cell mutagenicity No data available Respiratory or skin sensitisation No data available No data available Dermal: No data available Inhalation: No data available Inhalation: No data available No data available No data available Strong oxidizing agents No data available Stable under recommended storage conditions Carcinogenicity - Rat - Implant Tumorigenic Neoplastic by RTECS criteria, Lungs, Thorax, or Respiration:Tumors, Endocrine:Tumors, No data available No data available No data available No data available Skin corrosion/irritation No data available Dermal: No data available No data available Other decomposition products - No data available Carcinogenicity Acute toxicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.



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12.5 12.4 12.3 Sigma-Aldrich - PHR1518 12. ECOLOGICAL INFORMATION 14. TRANSPORT INFORMATION 13. DISPOSAL CONSIDERATIONS 12.2 Persistence and degradability Reproductive toxicity
No data available
No data available Waste treatment methods Other adverse effects Results of PBT and vPvB assessment No data available No data available Mobility in soil No data available Bioaccumulative potential No data available No data available PBT/vPvB assessment not available as chemical safety assessment not required/not conducted No data available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated Additional Information RTECS: Not available Specific target organ toxicity - single exposure No data available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. No data available Aspiration hazard No data available Specific target organ toxicity - repeated exposure No data available No data available Reproductive toxicity - Rat - Subautaneous Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants) IMDG **DOT (US)**Not dangerous goods Dispose of as unused product OSHA: NP. Contaminated packaging Offer surplus and non-recyclable solutions to a licensed disposal company No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. Page 5 of 6 Sigma-Aldrich - PHR1518 16. OTHER INFORMATION 15. REGULATORY INFORMATION NFPA Rating Health hazard: Fire Hazard: HMIS Rating reproductive harm. California Prop. 65 Components New Jersey Right To Know Components Pennsylvania Right To Know Components Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act SARA 311/312 Hazards This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 313 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 SARA 302 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing Not dangerous goods Not dangerous goods Physical Hazard Chronic Health Hazard Flammability: Preparation Information Sigma-Aldrich Corporation slip for additional terms and conditions of sale Further information Reactivity Hazard: Poly[oxy(dimethylsilylene)] Poly[oxy(dimethylsilylene)] Version: 5.2 1-800-521-8956 Product Safety – Americas Region Health hazard 0 - 0 Revision Date: 08/23/2017 CAS-No. 9016-00-6 CAS-No. 9016-00-6 Print Date: 09/29/2018 Revision Date Revision Date Page 6 of 6



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SU3

Sector of Use

603-022-00-4 Index number: 200-467-2 60-29-7 CAS Number: Article number: 2770 Trade name: Diethyl ether

SU22 8U9

Manufacture of fine chemicals

Manufacture of bulk, large scale chemicals (including petroleum products) Industrial uses. Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services

Product category PC13 Fuels

Registration number 01-2119535785-29-XXXX

1.2 Relevant identified uses of the substance or mixture and uses advised against

2.5 Diethyl Ether

PROC9 weighing) PROC10

PROCS Mixing or blending in batch processes

PROC7 Industrial spraying

PROC7 Industrial spraying

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

Transfer of substance or mixture into small containers (dedicated filling line, including

occasional controlled exposure or processes with equivalent containment condition PROC4 Chemical production where opportunity for exposure arises

exposure or processes with equivalent containment conditions PROC3 Manufacture or formulation in the chemical and

processes with equivalent containment conditions

PROC2 Chemical production or refinery in closed continuous process with occasional controlled Process category
PROC1 Chemical production or refinery in closed process without likelihood of exposure or

Manufacture or formulation in the chemical industry in closed batch processes with

Environmental release category

ERC1 Manufacture of the substance

Formulation into mixture

Use of non-reactive processing aid at industrial site (no inclusion into or onto article) a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) a Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) a Widespread use of reactive processing aid (no inclusion into or onto article, outdoor) widespread use of reactive processing aid (no inclusion into or onto article, outdoor)

(Contd. on page 2)

Results of PBT and vPvB assessment

(Contd. on page 3)

2.3 Other hazards

Additional information:

PROC16 Use of fuels

Treatment of articles by dipping and pouring Use as laboratory reagent

Roller application or brushing



according to 1907/2006/EC, Article 31 Safety data sheet

SECTION 1: Identification of the substance/mixture and of the company

1.1 Product identifier

undertaking

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1.4 Emergency telephone number: Single telephone number for emergency calls: 112 (EU) Tel.: (+34) 937 489 499 E-08211 Castellar del Vallès (Barcelona) Polígono Pla de la Bruguera Further information obtainable from: email: product.safety@panreac.com PANREAC QUIMICA S.L.U. Laboratory chemical Chemical analytics Biochemistry Manufacturer/Supplier: 1.3 Details of the supplier of the safety data sheet application of the substance / the mixture

Tel. (+34) 937 489 400 Fax. (+34) 937 489 401 e-mail: product.safety@panreac.com

SECTION 2: Hazards identification

according to 1907/2006/EC, Article 31 Safety data sheet

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(Contd. of page 1)

Trade name: Diethyl ether

STOT SE 3 H336 May cause drowsiness or dizziness Hazard pictograms Acute Tox. 4 H302 Harmful if swallowed Classification according to Regulation (EC) No 1272/2008 2.1 Classification of the substance or mixture 2.2 Label elements Flam. Liq. 1 H224 Extremely flammable liquid and vapour Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

Signal word Danger Hazard statements H224 Extremely flammable liquid and vapour GHS02 GHS07

H302 Harmful if swallowed. H336 May cause drowsiness or dizziness. recautionary statements

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition Use explosion-proof [electrical/ventilating/lighting] equipment sources. No smoking.

protection.
P303+P361+P353 IF ON SKIN (or hair): Take off Store locked up. Wear protective gloves/protective clothing/eye protection/face protection/hearing with water [or shower] immediately all contaminated clothing. Rinse skin

P405

EUH066 Repeated exposure may cause skin dryness or cracking EUH019 May form explosive peroxides Dispose of contents/container in accordance with local/regional/national/ international regulations

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Trade name: Diethyl ether

vPvB: Not applicable

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according to 1907/2006/EC, Article 31

Trade name: Diethyl ether

Protective equipment: 5.3 Advice for firefighters

(Contd. of page 2)

Wear self-contained respiratory protective device. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. Wear fully protective suit.

Cool endangered receptacles with water spray.

3.1 Chemical characterisation: Substances CAS No. Description

SECTION 3: Composition/information on ingredients

EC number: 200-467-2

60-29-7 Diethyl ether

Index number: 603-022-00-4

Collect confaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and confaminated fire fighting water in accordance with official regulations. Contain escaping vapours with water

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
Keep away from tignition sources. Avoid substance contact

Position and transport stably in side position.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least

4.1 Description of first aid measures **SECTION 4: First aid measures**

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Do not inhale steam staerosols.

6.2 Environmental precautions: Do not allow to enter sewers! surface or ground water. Ensure adequate ventilation Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections Clean up affected area Do not flush with water or aqueous cleansing agents

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment See Section 13 for disposal information.

Prevent formation of aerosols Ensure good ventilation/exhaustion at the workplace Open and handle receptacle with care.

Ensure good interior yentilation, especially at locition level. (Furnes are heavier than air) Information about fire - and explosion protection: Furnes can combine with air to form an explosive mixture.

Use only in explosion protected area

Protect against electrostatic charges Protect from hea Keep ignition sources away - Do not smoke

7.2 Conditions for safe storage, including any incompatibilities Storage:

5.1 Extinguishing media

Suitable extinguishing agents:

Water spray

SECTION 5: Firefighting measures

No further relevant information available.

make victim drink water (maximum of 2 drinking glasses)
4.2 Most important symptoms and effects, both acute and delayed Dizziness
4.3 Indication of any immediate medical attention and special treatment needed

Risk of aspiration!

Seek medical treatment.

After eye contact:

After swallowing:

Wash off with plenty of water immediately rinse with water.

Call a doctor immediately. After skin contact: Seek immediate medical advice

oxygen by trained personnel

Supply fresh air. After inhalation: Involve doctor immediately 48 hours after the accident

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or

Rinse opened eye for several minutes under running water

Immediately remove any clothing soiled by the product.

Do not induce vomiting; call for medical help immediately

Requirements to be met by storerooms and receptacles: Store in a cool location Information about storage in one common storage facility:

Away from sources of ignition and heat, Store away from oxidising agents.

Do not seal receptacle gas tight: Store in cool, dry conditions in well sealed receptacles Keep container tightly sealed. Further information about storage conditions:

Protect from heat and direct sunlight.

Open receptacle only under localised extractor facilities

Development of hazardous combustion gases or vapours possible in the event of fire Forms explosive mixtures with air at ambient temperatures. Vapours are heavier than air and may spread along floors.

Beware of backfiring

In case of fire, the following can be released: Carbon monoxide and carbon dioxide

Combustible

CO2, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Store receptacle in a well ventilated area.

(Contd. on page 4)

(Contd. on page 5)

7.1 Precautions for safe handling SECTION 7: Handling and storage

Use only in well ventilated areas.

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PNECS

Aquatic compartment - marine water Aquatic compartment - freshwater according to 1907/2006/EC, Article 31

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(Contd. of page 4)

Recommended thickness of the material: ≥ 0.7 mm Fluorocarbon rubber (Viton) Value for the permeation: Level ≥ 480 min

As protection from splashes gloves made of the following materials are suitable: Recommended thickness of the material: ≥ 0.7 mm

For the permanent contact gloves made of the following materials are suitable:

(Contd. of page 5)

SECTION 8: Exposure controls/personal protection

Eye protection:

Tightly sealed goggles

-luorocarbon rubber (Viton)

/alue for the permeation: Level ≥ 480 min

7.3 Specific end use(s) No further relevant information available

Recommended storage temperature: < 15°C

Avoid contact with air / oxygen (formation of peroxide).

Store under lock and key and with access restricted to technical experts or their assistants only.

Accessible for authorised persons only.

Additional information about design of technical facilities: No further data; see Item 7.

Ingredients with limit values that require monitoring at the workplace 8.1 Control parameters

IOELV Short-term value: 616 mg/m³, 200 ppm Long-term value: 308 mg/m³, 100 ppm 60-29-7 Diethyl ether

DNELS

Oral

Dermal

Long-term - systemic effects, worker

Long-term - systemic effects, general population

15.6 mg/kg 44 mg/kg

Acute - systemic effects, worker Long-term - systemic effects, worker

308 mg/m3

Long-term - systemic effects, general population
54.5 mg/m3 Long term - systemic effects, general population 15.6 mg/kg 616 mg/m3

Aquatic compartment - sediment in marine water | 0.914 mg/kg Aquatic compartment - sediment in freshwater 9.14 mg/kg 0.2 mg/L 0.66 mg/kg

2 mg/L

pH-value:

Colour:

Terrestrial compartment - soil 4.2 mg/L

Sewage treatment plant as basis

8.2 Exposure controls Additional information: The lists valid during the making were used

Personal protective equipment:

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feet
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working.

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed

Upper:

Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the degradation Selection of the glove material on consideration of the penetration times, rates of diffusion and the

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 6)

(Contd. on page 7)

9.1 Information on basic physical and chemical properties SECTION 9: Physical and chemical properties Body protection: Body protection: Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

Viscosity: Dynamic at 20 °C: Partition coefficient: n-octanol/water: Solubility in / Miscibility with water at 20 °C: Evaporation rate Relative density Vapour pressure at 20 Explosion limits: Explosive properties: Auto-ignition temperature: Decomposition temperature Ignition temperature: Flammability (solid, gas): Flash point: Change in condition Melting point/freezing point: Odour threshold: Density at 20 °C: Appearance: General Information Vapour density Initial boiling point and boiling range: 35 °C ŝ Not determined. Not determined. Not determined. 1.05 1.7 Vol % 36 Vol % -40 °C 170 °C 0.233 mPas 12 g/l 0.71 g/cm³ 587 hPa May form explosive peroxides Not determined. Not determined. Not applicable. Not determined. Not determined. Colourless

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Components

LD/LC50 values relevant for classification:

11.1 Information on toxicological effects

Acute toxicity

SECTION 11: Toxicological information

Inhalative LC50/4 h 97 mg/l (rat)

LD50

1,200 mg/kg (rat)

Value

Species

Primary irritant effect:

Type of test Effective concentration Method EC50/48 h 1,380 mg/l (daphnia magna) 12.1 Toxicity SECTION 12: Ecological information Aquatic toxicity: No further relevant information available Aspiration hazard Based on available data, the classification criteria are not met Assessment (Contd. on page 8)

Trade name: Diethyl ether according to 1907/2006/EC, Article 31 Safety data sheet 9.2 Other information A risk of explosions and/or of toxic gas formation exists with the following substances: azides, halogens, Halogen-halogen compounds, Non-metals, nonmetallic oxynalides, Strong oxidizing agents, Chromium (VI) oxide, Halogen oxides, personate compounds, personation acid, personates, Nitric acid, nitrating acid, Oxygen, Ozone, Turpentine oils and / or turpentine oil substitutes, nitrates, Nitric acid, nitrating acid, Oxygen, Ozone, Turpentine oils and / or turpentine oil substitutes, nitrates, oxygen strong acids metal chlorides Warming. A range from approx. 15 Kelvin below the flash point is to be rated as critical 10.6 Hazardous decomposition products: Peroxides 10.5 Incompatible materials: 10.4 Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition 10.3 Possibility of hazardous reactions Thermal decomposition / conditions to be avoided: 10.2 Chemical stability Kinematic:

SECTION 10: Stability and reactivity

10.1 Reactivity Forms explosive gas mixture with air.

Not determined.

No further relevant information available (Contd. of page 6)

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according to 1907/2006/EC, Article 31 Safety data sheet

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Trade name: Diethyl ether

NOEC/72 h | 100 mg/l (Algae) LC50/96 h LC50/48 h 2,840 mg/l (fish 2,560 mg/l (fish) (Contd. of page 7)

NOEC (21 d) 100 mg/l (daphnia magna)

12.2 Persistence and degradability The product is easily biodegradable

12.4 Mobility in soil No further relevant information available. 12.3 Bioaccumulative potential Does not accumulate in organisms

Additional ecological information:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
12.5 Results of PBT and vPvB assessment General notes:

PBT: Not applicable

/PvB: Not applicable

12.6 Other adverse effects No further relevant information available

Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product. SECTION 14: Transport information

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

ecommendation:

Recommendation 13.1 Waste treatment methods SECTION 13: Disposal considerations

Label Class 14.3 Transport hazard class(es) ADR IMDG, IATA ADR, IMDG, IATA 14.2 UN proper shipping name 14.1 UN-Number ADR, IMDG, IATA 14.4 Packing group ADR, IMDG, IATA 3 (F1) Flammable liquids 3 Flammable liquids UN1155 DIETHYL ETHER (ETHYL ETHER)

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met Serious eye damage/irritation Based on available data, the classification criteria are not met. After inhalation: No irritant effect. Skin corrosion/irritation Based on available data, the classification criteria are not met

Reproductive toxicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met

STOT-single exposure

May cause drowsiness or dizziness.

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UN "Model Regulation"

UN 1155 DIETHYL ETHER (ETHYL ETHER), 3, I

MDG

Tunnel restriction code Transport category

Excepted quantities (EQ)

according to 1907/2006/EC, Article 31 Safety data sheet

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· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	· Transport/Additional information:	 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Stowage Code	· EMS Number:	 14.6 Special precautions for user Hazard identification number (Kemler code): 	· 14.5 Environmental hazards:	
O Code: E3 Maximum per quantity per inner packacing: 30 ml		of Not applicable.	E SW2 Clear of living quarters.	F-E,S-D	Warning: Flammable liquids.	Not applicable.	(Contd. of page 8)

SECTION 15: Regulatory information

mixture 15.1 Safety, health and environmental regulations/legislation specific for the substance or

Qualifying quantity (tonnes) for the application of upper-tier requirements 50 t REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40 Qualifying quantity (tonnes) for the application of lower-tier requirements 10 t

Seveso category P5a FLAMMABLE LIQUIDS

Named dangerous substances - ANNEX I Substance is not listed

Directive 2012/18/EU

15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms: RID: Réglement international concer Concerning the International Transport Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations cerning the International Transport of Dangerous Goods by Rail)

CAC International Cold Adultion Organisation
ADR Accord européen sur le transport des marchandises dangereuses par Route (Europeen Agreement concerning the international Carning of Changarous Goods by Rood
MDC, International Maintime Code for Dangarous Goods
ATA, International Adultime Code for Dangarous Goods
ATA, International Adultimes Code for Dangarous Goods
ATA, International Adultimes Code for Classification and Labelling of Chemicals
CHR Giotelly Harmonised System of Chassification and Labelling of Chemicals
CHR Giotelly Harmonised System of Chassification Chemical Society)
DAIEL Chemical Existing Commercial Chemical Society)
DAIEL Chemical Existing Commercial Chemical Society)
PAEC: Predicted Live (FRACH)
PAEC: Predicted Live (FRACH)
COMPACT Chemical Concernitation (AEACH)
COMPACT Chemical Concernitation (AEACH)
DSG, Lethal concernitation, 50 percent
DSG, Lethal concernitation, 50 percent
DSG, Lethal concernitation, 50 percent

(Contd. on page

Code: E3

Maximum net quantity per uniter packaging, 30 ml

Process category Product category PC13 Fuels SU9 Manufacture of fine chemicals

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 300 ml

PROC10 PROC7 occasional controlled exposure or processes with equivalent containment condition PROC4 Chemical production where opportunity for exposure arises Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including Industrial spraying

PROC15 PROC13 Roller application or brushing Treatment of articles by dipping and pouring

Environmental release category PROC16 Use of fuels Manufacture of the substance Formulation into mixture Use as laboratory reagent

Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor
Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)

ERC2 = ERC4 = ERC8a = ERC8d = ERC8d = ERC8d

Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.

Conditions of use

Duration and frequency 5 workdays/week Physical parameters

Physical state Fluid

Concentration of the substance in the mixture Raw material Used amount per time or activity ≤ 1 tons per day

Other operational conditions affecting environmental exposure No special measures required Other operational conditions

Other operational conditions affecting worker exposure

Take precautionary measures against static discharge

Outdoor application indoor application Keep away from sources of ignition - No smoking.

Other operational conditions affecting consumer exposure Keep out of the reach of children. Other operational conditions affecting consumer exposure during the use of the product

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according to 1907/2006/EC, Article 31 Safety data sheet

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Trade name: Diethyl ether

Filam. Lid. 1: Flammable Rould's - Category 1
Acute Tox. 4: Acute toxicity - oral - Category 4
STOT SE 3: Specific target organ toxicity (single exposure) - Ca
* Data compared to the previous version altered. exposure) - Category 3

Short title of the exposure scenario Formulation and packing/repacking of substances and mixtures Annex: Exposure scenario Sector of Use

craftsmen)
SU8 Manufacture of bulk, large scale chemicals (including petroleum products)

SU22 Professional uses: Public domain (administration, education, entertainment, services

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

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PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled

exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with

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Trade name: Diethyl ether

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Risk management measures

Worker protection

Provide explosion-proof electrical equipment. Technical protective measures

Organisational protective measures No special measures required

Ensure that suitable extractors are available on processing machines The glove material has to be impermeable and resistant to the product/ the substance/ the Do not inhale gases / fumes / aerosols. Personal protective measures

Selection of the glove material on consideration of the penetration times, rates of diffusion and the

Measures for consumer protection

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste type Partially emptied and uncleaned packaging

Disposal measures

Environmental protection measures

Keep locked up and out of the reach of children

Water No special measures required

Ensure adequate labelling.

preparation.

Consumer Not relevant for this Exposure Scenario. Guidance for downstream users No further relevant information available

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