

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

Printing date 02.03.2023

Version number 204.30 (replaces version 204.29)

Revision: 01.03.2023

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

1.1 Product identifier

Trade name Soda leicht Solvay-Ware**Article number:** 1000378641002**CAS Number:**

497-19-8

EC number:

207-838-8

Index number:

011-005-00-2

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

No further relevant information available.

Application of the substance / the mixture

Basic chemical (without special defined application)

Industrial / Professional use

Metal working

Water treatment

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

STOCKMEIER Chemie GmbH & Co.KG, Am Stadtholz 37, DE - 33609 Bielefeld
Tel.: +49 521 / 30 37-0, ehs-bielefeld@stockmeier.de-----
STOCKMEIER Fluids GmbH & Co. KG, Sanssouci 12, DE – 58802 Balve
Tel.: +49 2375 917 310, fluids@stockmeier.com-----
BASSERMANN Minerals GmbH & Co. KG, Rudolf-Diesel-Straße 42, DE – 68169 Mannheim
Tel.: +49 621 15 01 0, verkauf@bassermann.de-----
STOCKMEIER CHEMIA Sp. z o. o. i S.S.K., ul. Obornicka 277, PL - 60-691 Poznań
Tel.: +48 61 666 10 66, zamowienia@stockmeier.pl-----
STOCKMEIER QUIMICA, S.L.U., Avda. del Baix Llobregat, 3- 5, ES – 08970 Sant Joan Despí (Barcelona)
Tel.: +34 93 506 91 83, tecnico-calidad@stockmeier.es-----
DE NOORD Chemicals B.V., Ridderpoort 5, NL - 2984 BG Ridderkerk
Tel.: +31 180 415 988, info@noordchem.nl-----
STOCKMEIER Chemie Austria, Ricoweg 32b, AT - 2351 Wiener Neudorf
Tel.: +43 2236 623-40, office@stockmeier.at-----
KEMTAN AG, Seewenweg 6, CH – 4153 Reinach
Tel.: +41 61 711 20 20, info@kemtan.ch-----
STOCKMEIER CHEMICALS BELUX SA/NV, Rue de la Station 17, BE – 1300 Limal
Tel.: +32 10 421-320, info@stockmeierchemicalsbelux.com-----
HDS – Chemie Handels GES.M.B.H., Bauernmarkt 24, AT - 1010 Wien
Tel.: +43 15 32 0 999, office@hds-chemie.at-----
www.stockmeier.com

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Informing department:

Product safety department. Tel.: 0049 / 521 / 3037-381

E-mail: ehs-bielefeld@stockmeier.de

1.4 Emergency telephone number:

This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet.

Counselling Centre for Poisoning, Mainz

Tel. (+49) 61 31 / 19 240.

SECTION 2: Hazards identification

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

Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word Warning**Hazard statements**

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Additional information:

- Store in dry place -

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances Natriumcarbonat Na₂CO₃, Sodium carbonate, Soda**CAS No. Designation:**

497-19-8 sodium carbonate

Identification no(s):**EC number:** 207-838-8**Index number:** 011-005-00-2

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SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Change contaminated clothing.

After inhalation Supply fresh air; consult doctor in case of symptoms.

After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

Product is non-flammable. Use fire fighting measure that suit the surroundings.

For safety reasons unsuitable extinguishing agents None

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

carbon oxides (COx)

5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.

See section 8.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid causing dust.

Wear protective equipment. Keep off unprotected persons

Bei Kontakt mit Säuren besteht Erstickungsgefahr durch Kohlendioxid-Gas in ungelüfteten Räumen, Kellern und Schächten

6.2 Environmental precautions:

Damp down dust with water spray jet.

Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically and rinse the remainder with water. Avoid dust development. Place in suitable container and send to be recycled or disposed of (taking item 13 into account).

Use neutralising agent.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Prevent formation of dust.

Avoid contact with eyes or skin.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Pay attention to general rules of internal fire prevention.

7.2 Conditions for safe storage, including any incompatibilities

Storage Store in cool, dry conditions in well sealed containers.

Requirements to be met by storerooms and containers:

Observe official regulations on storage and handling of water hazardous substances

Store only in the original container.

Information about storage in one common storage facility: Do not store together with acids.**Further information about storage conditions:** This product is hygroscopic.**Storage class** 13 (TRGS 510)**7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace: Not required.

DNELs

| | | |
|------------|-------------------|--------------------------------------------------|
| Inhalative | DNEL (worker) | 10 mg/m ³ (Long-term - local effects) |
| | DNEL (population) | 10 mg/m ³ (Acute, local effects) |

PNECs No PNEC value was determined.**Additional information:** The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Appropriate engineering controls In case of dust development, suction is needed.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not inhale dust. Prevent formation of dust.

Breathing equipment: Breathing protection to be used where a build-up of dust occurs.**Recommended filter device for short term use:** Filter P2**Hand protection** Protective gloves and protective skin cream.

Material of gloves

Natural rubber, NR

Neoprene gloves

Eye/face protection Tightly sealed safety glasses recommended.**Body protection:** Standard protective working clothes

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

| | |
|-----------------------------------------------------------------|----------------------------------------------------|
| Colour: | White |
| Smell: | Odourless |
| Odour threshold: | Not determined. |
| Melting point/freezing point: | 854 °C |
| Boiling point or initial boiling point and boiling range | >400 °C |
| Flammability | Product is not inflammable. |
| Flash point: | Product is non-flammable nor potentially explosive |
| Decomposition temperature: | > 400 °C |
| pH | 11,3 (1%) |
| pH-value: | |
| Viscosity: | |
| Kinematic viscosity | Not applicable. |
| dynamic: | Not applicable. |
| Solubility | |
| Water at 20 °C: | ~ 212 g/L |
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure: | Not applicable. |
| Density and/or relative density | |
| Density at 20 °C | 2,533 g/cm ³ |
| Relative density | Not determined. |
| Settled apparent density | see specification |
| Vapour density | Not applicable. |
| Particle characteristics | See item 3. |

9.2 Other information

| | |
|--------------------------------------------------------------------------------------|--------------------------------------|
| Appearance: | This product is hygroscopic. |
| Form: | Crystalline |
| Important information on protection of health and environment, and on safety. | |
| Self-inflammability: | Product is not selfigniting. |
| Explosive properties: | Product is not potentially explosive |
| Molecular weight | 105,99 g/mol |
| Softening point/range | |
| Oxidising properties | No oxidizing properties |
| Evaporation rate | Not applicable. |

Information with regard to physical hazard classes

| | |
|----------------------------------------------|------|
| Explosives | Void |
| Flammable gases | Void |
| Aerosols | Void |
| Oxidising gases | Void |
| Gases under pressure | Void |
| Flammable liquids | Void |
| Flammable solids | Void |
| Self-reactive substances and mixtures | Void |
| Pyrophoric liquids | Void |
| Pyrophoric solids | Void |

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| | |
|---------------------------------------------------------------------------|-----------|
| Self-heating substances and mixtures | Void |
| Substances and mixtures, which emit flammable gases in contact with water | Void |
| Oxidising liquids | Void |
| Oxidising solids | Void |
| Organic peroxides | Void |
| Corrosive to metals | Void |
| Desensitised explosives | Void |
| molecular weight (weight average/Mw): | 106 g/mol |

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions Reacts with acids

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

Strong acids

Erdalkali- und Schwermetallsalze, Aluminium, organische Nitroverbindungen, Nichtmetalloxide/Hitze.

10.6 Hazardous decomposition products: Reacts with acids forming carbon dioxide.

Additional information:

Die wäßrige Lösung des Produktes reagiert stark alkalisch. Natriumcarbonat bindet Wasser und Kohlensäure aus der Luft.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

LD/LC50 values that are relevant for classification:

| | | |
|------------|-------------|--------------------------------------------------------------|
| Oral | LD50 | 4.090 mg/kg (IUCLID) 2.800 mg/kg (rat) |
| Dermal | LD50 | >2.000 mg/kg (rat) (16 CFR 1500.40) >2.000 mg/kg (rabbit) |
| Inhalative | LC 50 / 2 h | 2,3 mg/l (rat) |

Skin corrosion/irritation

Prolonged/repeated skin contact may cause defatting, dryness and other skin complaints and inflammations (dermatitis).

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

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

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

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

Aspiration hazard Based on available data, the classification criteria are not met.

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Additional toxicological information:

Der Stoff zeigt in Verbindung mit Wasser/Feuchtigkeit (in Gewebe) stark alkalische Reaktionen. Deshalb sind lokale Reizwirkungen an Haut, Augen und Schleimhäuten möglich.

11.2 Information on other hazards

Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity**Aquatic toxicity:**

| | |
|--------------|-----------------------------------|
| LC 50 / 96 h | 300 mg/l (Lepomis macrochirus) |
| EC 50 / 48 h | 200-227 mg/l (Ceriodaphnia dubia) |

12.2 Persistence and degradability

Inorganic product: not biodegradable.

Abiotic degradation: hydrolysis in water

12.3 Bioaccumulative potential No bioaccumulation**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects**Additional ecological information:**

General notes: Water hazard class 1 (Assessment by list): slightly hazardous for water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

Recommendation

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

If possible, send to be recycled, otherwise burn or deposit in a certified facility.

Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

Uncleaned packagings: Disposal must be made according to official regulations.

Recommendation:

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning.

Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

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SECTION 14: Transport information

| | |
|------------------------------------------------------------------------------|------------------------------------------------------|
| 14.1 UN number or ID number ADR/RID/ADN, IMDG, IATA | Void |
| 14.2 UN proper shipping name ADR/RID/ADN, IMDG, IATA | Void |
| 14.3 Transport hazard class(es) ADR/RID/ADN, IMDG, IATA Class | Void |
| 14.4 Packing group ADR/RID/ADN, IMDG, IATA | Void |
| 14.6 Special precautions for user | Not applicable. |
| 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| Transport/Additional information: | Not dangerous according to the above specifications. |
| UN "Model Regulation": | Void |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word Warning

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Directive 2012/18/EU

Named dangerous substances - ANNEX I

None

Substance is not listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

REGULATION (EU) 2019/1148

Regulation (EC) No 273/2004 on drug precursors Substance is not listed.

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Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

National regulations

Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.

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

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Department issuing data specification sheet: see item 1: Informing department

Date of previous version: 12.01.2023

Version number of previous version: 204.29

Abbreviations and acronyms:

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

*** Data compared to the previous version altered.**

ANNEX

Exposure Scenarios:

Manufacture of substance

Use in formulations

Formulation and (re)packaging of substances and mixtures

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* Annex: Exposure scenario 1

Short title of the exposure scenario

Manufacture of substance

Use in formulations

Sector of Use

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

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

Process category

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 occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

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 weighing)

PROC22 Manufacturing and processing of minerals and/or metals at substantially elevated temperature

Environmental release category ERC1 Manufacture of the substance

Conditions of use

Worker

Includes daily exposure of up to 8 hours.

(unless otherwise stated)

Environment The release into the environment is considered insignificant.

Physical parameters

Physical state

Solid.

Medium dustiness

low dustiness (PROC22)

Concentration of the substance in the mixture Includes concentrations up to: 100%

Other operational conditions

Other operational conditions affecting worker exposure Indoor application.

Risk management measures

Worker protection

Organisational protective measures Keep good industrial hygiene.

Technical protective measures Provide suction extractors if dust is formed.

Personal protective measures

Breathing protection to be used where a build-up of dust occurs.

Protective gloves and protective skin cream.

Tightly sealed safety glasses recommended.

Standard protective working clothes

For further information on "Personal protective equipment" see section 8 of the safety data sheet.

Do not eat, drink or smoke while working.

Wash hands during breaks and at the end of the work.

Environmental protection measures

Water No special measures required.

Disposal measures

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

If possible, send to be recycled, otherwise burn or deposit in a certified facility.

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Exposure estimation**Worker (inhalation)**

The exposure estimation was carried out according to ECETOC TRA v2,0.
long term - systemic:

| | Exposure assessment RCR | |
|--------|-------------------------|-------|
| PROC1 | 0,01 mg/m ³ | 0,001 |
| PROC 2 | 0,5 mg/m ³ | 0,05 |
| PROC3 | 1 mg/m ³ | 0,1 |
| PROC4 | 5 mg/m ³ | 0,5 |
| PROC8a | 5 mg/m ³ | 0,5 |
| PROC8b | 5 mg/m ³ | 0,5 |
| PROC9 | 5 mg/m ³ | 0,5 |
| PROC22 | 1 mg/m ³ | 0,1 |

Environment

Exposure is considered negligible.

Air 118 kg/d

Guidance for downstream users

Environment:

If a downstream user uses risk management measures / conditions of use that do not meet the specifications in the exposure scenario, they can assess whether they are working within the limits set by the exposure scenario by scaling in EUSES.

The main determining parameters are:

- local quantity used (total production)
- release factor before treatment at the site
- Existence of on-site wastewater treatment and its efficiency
- Dilution factor

The required separation efficiency for wastewater can be achieved by using on-site/off-site technologies, either alone or in combination.

Health:

Expected exposure does not exceed the DNEL/DMEL if risk management measures/operating conditions are complied with.

If other risk management measures / operational conditions are adopted, users should ensure that risks are limited to at least an equivalent level.

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* Annex: Exposure scenario 2

Short title of the exposure scenario Use in the glass industry

Sector of Use

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

SU13 Manufacture of other non-metallic mineral products, e.g. plasters, cement

Process category

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 occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

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

PROC22 Manufacturing and processing of minerals and/or metals at substantially elevated temperature

PROC23 Open processing and transfer operations at substantially elevated temperature

PROC26 Handling of solid inorganic substances at ambient temperature

Environmental release category ERC6a Use of intermediate

Conditions of use

Worker

Includes daily exposure of up to 8 hours.

(unless otherwise stated)

Environment The release into the environment is considered insignificant.

Physical parameters

Physical state

Solid.

Medium dustiness

High dustiness (PROC22, PROC23)

Concentration of the substance in the mixture

(unless otherwise stated)

Includes concentrations up to: 100%

PROC22, PROC23: ≤ 25%

Other operational conditions

Other operational conditions affecting worker exposure Indoor application.

Risk management measures

Worker protection

Organisational protective measures Keep good industrial hygiene.

Technical protective measures Provide suction extractors if dust is formed.

Personal protective measures

Respiratory protection necessary at exposure limit excess, insufficient ventilation, insufficient exhaustion, prolonged exposure, handling of large amounts.

Dusk mask

Protective gloves (EN 374).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

Tightly sealed safety glasses.

Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

For further information on "Personal protective equipment" see section 8 of the safety data sheet.

Do not eat, drink or smoke while working.

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Wash hands during breaks and at the end of the work.

Environmental protection measures**Water** If emptied into a domestic sewage treatment plant, no on-site wastewater treatment is necessary.**Disposal measures**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. If possible, send to be recycled, otherwise burn or deposit in a certified facility.

Exposure estimation**Worker (inhalation)**The exposure estimation was carried out according to ECETOC TRA v2,0.
long term - systemic:

| | Exposure assessment RCR | |
|--------|-------------------------|-------|
| PROC1 | 0,01 mg/m ³ | 0,001 |
| PROC2 | 0,5 mg/m ³ | 0,05 |
| PROC3 | 1 mg/m ³ | 0,1 |
| PROC4 | 5 mg/m ³ | 0,5 |
| PROC8a | 5 mg/m ³ | 0,5 |
| PROC8b | 5 mg/m ³ | 0,5 |
| PROC22 | 1 mg/m ³ | 0,1 |
| PROC23 | 1 mg/m ³ | 0,1 |

Environment Exposure is considered negligible.**Guidance for downstream users**

Environment:

If a downstream user uses risk management measures / conditions of use that do not meet the specifications in the exposure scenario, they can assess whether they are working within the limits set by the exposure scenario by scaling in EUSES.

The main determining parameters are:

- local quantity used (total production)
- release factor before treatment at the site
- Existence of on-site wastewater treatment and its efficiency
- Dilution factor

The required separation efficiency for wastewater can be achieved by using on-site/off-site technologies, either alone or in combination.

Health:

Expected exposure does not exceed the DNEL/DMEL if risk management measures/operating conditions are complied with.

If other risk management measures / operational conditions are adopted, users should ensure that risks are limited to at least an equivalent level.

— EUE —

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* Annex: Exposure scenario 3

Short title of the exposure scenario Formulation and (re)packaging of substances and mixtures

Sector of Use

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

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

Process category

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 occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 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 weighing)

PROC14 Tableting, compression, extrusion, pelletisation, granulation

PROC15 Use as laboratory reagent

Environmental release category ERC6a Use of intermediate

Conditions of use

Worker

Includes daily exposure of up to 8 hours.

(unless otherwise stated)

Environment The release into the environment is considered insignificant.

Physical parameters

Physical state

Solid.

Medium dustiness

Concentration of the substance in the mixture

Includes concentrations up to: 100%

(unless otherwise stated)

Other operational conditions

Other operational conditions affecting worker exposure Indoor application.

Risk management measures

Worker protection

Organisational protective measures Keep good industrial hygiene.

Technical protective measures

Ensure good ventilation/exhaustion at the workplace.

Ensure that suitable extractors are available on processing machines

Personal protective measures

Respiratory protection necessary at exposure limit excess, insufficient ventilation, insufficient exhaustion, prolonged exposure, handling of large amounts.

Dusk mask

Protective gloves (EN 374).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

Tightly sealed safety glasses.

Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

For further information on "Personal protective equipment" see section 8 of the safety data sheet.

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Do not eat, drink or smoke while working.

Wash hands during breaks and at the end of the work.

Environmental protection measures

Air An exhaust air purification system, e.g. air washer or filter, should be used for the exhaust air.

Water

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

Disposal measures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. If possible, send to be recycled, otherwise burn or deposit in a certified facility.

Exposure estimation

Worker (inhalation)

The exposure estimation was carried out according to ECETOC TRA v2,0.
long term - systemic:

| | Exposure assessment RCR | |
|--------|-------------------------|-------|
| PROC1 | 0,01 mg/m ³ | 0,001 |
| PROC2 | 0,5 mg/m ³ | 0,05 |
| PROC3 | 1 mg/m ³ | 0,1 |
| PROC4 | 5 mg/m ³ | 0,5 |
| PROC5 | 5 mg/m ³ | 0,5 |
| PROC8a | 5 mg/m ³ | 0,5 |
| PROC8b | 5 mg/m ³ | 0,5 |
| PROC9 | 5 mg/m ³ | 0,5 |
| PROC14 | 1 mg/m ³ | 0,1 |
| PROC15 | 0,5 mg/m ³ | 0,05 |

Environment Exposure is considered negligible.

Guidance for downstream users

Environment:

If a downstream user uses risk management measures / conditions of use that do not meet the specifications in the exposure scenario, they can assess whether they are working within the limits set by the exposure scenario by scaling in EUSES.

The main determining parameters are:

- local quantity used (total production)
- release factor before treatment at the site
- Existence of on-site wastewater treatment and its efficiency
- Dilution factor

The required separation efficiency for wastewater can be achieved by using on-site/off-site technologies, either alone or in combination.

If other risk management measures / operational conditions are adopted, users should ensure that risks are limited to at least an equivalent level.

Health:

Expected exposure does not exceed the DNEL/DMEL if risk management measures/operating conditions are complied with.

— EUE —

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* Annex: Exposure scenario 4

Short title of the exposure scenario Industrial and professional use

Sector of Use

- SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU0 Other
- SU1 Agriculture, forestry, fishery
- SU2a Mining, (without offshore industries)
- SU2b Offshore industries
- SU4 Manufacture of food products
- SU5 Manufacture of textiles, leather, fur
- SU6a Manufacture of wood and wood products
- SU6b Manufacture of pulp, paper and paper products
- SU7 Printing and reproduction of recorded media
- SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
- SU9 Manufacture of fine chemicals
- SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
- SU11 Manufacture of rubber products
- SU12 Manufacture of plastics products, including compounding and conversion
- SU13 Manufacture of other non-metallic mineral products, e.g. plasters, cement
- SU14 Manufacture of basic metals, including alloys
- SU15 Manufacture of fabricated metal products, except machinery and equipment
- SU16 Manufacture of computer, electronic and optical products, electrical equipment
- SU17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
- SU18 Manufacture of furniture
- SU19 Building and construction work
- SU20 Health services
- SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- SU23 Electricity, steam, gas water supply and sewage treatment
- SU24 Scientific research and development

Product category Used for a variety of purposes in a wide range of sectors and categories.

Process category

- 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 occasional controlled exposure or processes with equivalent containment condition
- PROC4 Chemical production where opportunity for exposure arises
- 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
- PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
- PROC10 Roller application or brushing
- PROC11 Non industrial spraying
- PROC13 Treatment of articles by dipping and pouring
- PROC15 Use as laboratory reagent
- PROC17 Lubrication at high energy conditions in metal working operations
- PROC18 General greasing /lubrication at high kinetic energy conditions
- PROC19 Manual activities involving hand contact
- PROC22 Manufacturing and processing of minerals and/or metals at substantially elevated temperature
- PROC23 Open processing and transfer operations at substantially elevated temperature
- PROC26 Handling of solid inorganic substances at ambient temperature

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Environmental release category

- ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- ERC5 Use at industrial site leading to inclusion into/onto article
- ERC6a Use of intermediate
- ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)
- ERC6d Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
- ERC7 Use of functional fluid at industrial site
- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
- ERC8c Widespread use leading to inclusion into/onto article (indoor)
- ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
- ERC8e Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
- ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- ERC9a Widespread use of functional fluid (indoor)
- ERC9b Widespread use of functional fluid (outdoor)

Conditions of use**Worker**

Includes daily exposure of up to 8 hours.
(unless otherwise stated)

liquid:

> 4 h/d (PROC3, PROC4, PROC7, PROC9, PROC10, PROC11, PROC17, PROC18).

< 1 h/d (PROC8a, PROC8b, PROC13, PROC15, PROC19)

< 15 min/d (PROC1, PROC2)

fixed:

> 4 h/d (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC22, PROC23).

Environment The release into the environment is considered insignificant.**Physical parameters****Physical state**

Fluid

(PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC17, PROC18, PROC19)

solid:

medium dustiness (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15)

high dustiness (PROC22, PROC 23)

Concentration of the substance in the mixture

Includes concentrations up to: 100%

(unless otherwise stated)

Other operational conditions**Other operational conditions affecting worker exposure** Indoor application.**Risk management measures****Worker protection****Organisational protective measures** Keep good industrial hygiene.**Technical protective measures**

Ensure good ventilation/exhaustion at the workplace.

Ensure that suitable extractors are available on processing machines

Personal protective measures

Respiratory protection necessary at exposure limit excess, insufficient ventilation, insufficient exhaustion, prolonged exposure, handling of large amounts.

Dusk mask

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Protective gloves (EN 374).

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

Tightly sealed safety glasses.

Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

For further information on "Personal protective equipment" see section 8 of the safety data sheet.

Do not eat, drink or smoke while working.

Wash hands during breaks and at the end of the work.

Environmental protection measures

Air An exhaust air purification system, e.g. air washer or filter, should be used for the exhaust air.

Water

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

Disposal measures

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

If possible, send to be recycled, otherwise burn or deposit in a certified facility.

Exposure estimation

Worker (inhalation)

The exposure estimation was carried out according to ECETOC TRA v2,0.

Long-term - systemic (all RCRs \leq 0.5), exposure level in mg/m³ respectively:

| | Industrial use: | | Commercial use: | |
|--------|-----------------|--------|-----------------|-------------|
| | solid | liquid | solid | liquid |
| PROC1 | 0,01 | 0,01 | 0,001 | 0,0044 |
| PROC2 | 0,5 | - | 0,1 | 0,044 |
| PROC3 | 1 | 0,044 | | |
| PROC4 | 5 | 5 | 5 | 0,004 |
| PROC7 | 0,022 | 0,022 | n. a. | |
| PROC8a | 5 | 5 | 1 | 0,088 |
| PROC8b | 5 | - | - | 0,088 |
| PROC9 | 5 | 0,044 | | |
| PROC10 | n.a. | n.a. | - | 0,44 |
| PROC11 | n.a. | n.a. | - | 0,44 |
| PROC13 | n.a. | n.a. | - | 0,088 |
| PROC15 | 5 | - | - | 0,088 |
| PROC17 | - | 0,022 | n. a. | |
| PROC18 | - | 0,022 | n. a. | |
| PROC19 | 5 | 5 | 1 | 0,088 |
| PROC22 | 1 | - | | |
| PROC23 | 1 | - | | |
| SU1 | - | - | 0,142 | - (outdoor) |

Environment Exposure is considered negligible.

Guidance for downstream users

Environment:

If a downstream user uses risk management measures / conditions of use that do not meet the specifications in the exposure scenario, they can assess whether they are working within the limits set by the exposure scenario by scaling in EUSES.

The main determining parameters are:

- local quantity used (total production)
- release factor before treatment at the site
- Existence of on-site wastewater treatment and its efficiency
- Dilution factor

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The required separation efficiency for wastewater can be achieved by using on-site/off-site technologies, either alone or in combination.

If other risk management measures / operational conditions are adopted, users should ensure that risks are limited to at least an equivalent level.

Health:

Expected exposure does not exceed the DNEL/DMEL if risk management measures/operating conditions are complied with.

EUE

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* Annex: Exposure scenario 5

Short title of the exposure scenario Consumer end use**Sector of Use** SU21 Consumer uses: Private households / general public / consumers**Product category**

PC0 Other

Used for a variety of purposes in a wide range of sectors and categories.

Environmental release category

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

ERC8c Widespread use leading to inclusion into/onto article (indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

ERC8e Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)

ERC8f Widespread use leading to inclusion into/onto article (outdoor)

ERC9a Widespread use of functional fluid (indoor)

ERC9b Widespread use of functional fluid (outdoor)

Conditions of use**Duration and frequency**

1 workday/week.

5 min

Environment The release into the environment is considered insignificant.**Physical parameters****Concentration of the substance in the mixture**

Includes concentrations up to: 100%

(unless otherwise stated)

Used amount per time or activity 10 g/l**Risk management measures****Worker protection****Personal protective measures** Avoid contact with the eyes and skin.**Measures for consumer protection**

Keep out of reach of children.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Environmental protection measures**Water** If emptied into a domestic sewage treatment plant, no on-site wastewater treatment is necessary.**Disposal measures**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. If possible, send to be recycled, otherwise burn or deposit in a certified facility.

Exposure estimation**Environment** Exposure is considered negligible.**Consumer****Inhalation:**

A quantitative risk assessment of inhalation exposure is not required as this is considered to be insignificant.

Dermal (long-term systemic):

Exposure assessment method : AISE Reach Exposure Assessment Consumer Tool (REACT)

PC35, AISE-SP-C0001 0.036 mg/kg/d (powder)

PC35, AISE-SP-C0001 0.053 mg/kg/d (liquid)

PC35, AISE-SP-C0002 0.037 mg/kg/d (powder)

PC35, AISE-SP-C0002 0.053 mg/kg/d (liquid, gel)

PC35, AISE-SP-C0004 0.052 mg/kg/d (liquid)

PC35, AISE-SP-C0005 0.0007 mg/kg/d

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PC35, AISE-SP-C0007 0.1 mg/kg/d (gel)

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Guidance for downstream users**Environment:**

If a downstream user uses risk management measures / conditions of use that do not meet the specifications in the exposure scenario, they can assess whether they are working within the limits set by the exposure scenario by scaling in EUSES.

The main determining parameters are:

- local quantity used (total production)
- release factor before treatment at the site
- Existence of on-site wastewater treatment and its efficiency
- Dilution factor

The required separation efficiency for wastewater can be achieved by using on-site/off-site technologies, either alone or in combination.

If other risk management measures / operational conditions are adopted, users should ensure that risks are limited to at least an equivalent level.

Health:

Expected exposure does not exceed the DNEL/DMEL if risk management measures/operating conditions are complied with.