

# Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 15.06.2021 Revision: 15.06.2021 Version number 12.02 (replaces version 12.01)

SECTION 1 undertaking	: Identification of the substance/mixtu	ure and of the company/
· 1.1 Product ide	ntifier	
· Trade name: <u>Sl</u>	DS	
Laboratory chen	the substance / the mixture	
<ul> <li>1.3 Details of th</li> <li>Manufacturer/S</li> <li>AppliChem Gmb</li> <li>Ottoweg 4</li> <li>D-64291 Darms</li> </ul>	bH	Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com
	ation obtainable from: Dept. Compliance telephone number: +49(0)6151 93570 (Inside norm	nal buisness hours)
SECTION 2:	Hazards identification	
	on of the substance or mixture	
Flam, Sol. 1	according to Regulation (EC) No 1272/2008 H228 Flammable solid.	
Acute Tox. 3	H301 Toxic if swallowed.	
Skin Irrit. 2	H315 Causes skin irritation.	
Eye Dam. 1	H318 Causes serious eye damage.	
STOT SE 3	H335 May cause respiratory irritation.	
Aquatic Chronic	3 H412 Harmful to aquatic life with long lasting effect	cts.
	rding to Regulation (EC) No 1272/2008 s classified and labelled according to the CLP regulat ams	tion.



· Signal word Danger

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Trade name: SDS

	(Contd. of page 1)			
• Hazard statem	nents			
H228 Flammat	H228 Flammable solid.			
H301 Toxic if s	wallowed.			
H315 Causes s	skin irritation.			
H318 Causes s	serious eye damage.			
H335 May caus	se respiratory irritation.			
	to aquatic life with long lasting effects.			
• Precautionary	statements			
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.			
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.			
P321	Specific treatment (see on this label).			
P330	Rinse mouth.			
P305+P351+P3	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact			
	lenses, if present and easy to do. Continue rinsing.			
P362+P364	Take off contaminated clothing and wash it before reuse.			
P405	Store locked up.			
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.			
· 2.3 Other haza	· 2.3 Other hazards			
· Results of PB <sup>*</sup>	· Results of PBT and vPvB assessment			
· PBT: Not appli	cable.			
• vPvB: Not app				
SECTION 3:	SECTION 3: Composition/information on ingredients			
	3.1 Substances			
	· CAS No. Description			
	151-21-3 sodium dodecyl sulfate			
	· Identification number(s)			

• EC number: 205-788-1

### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

#### General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Involve doctor immediately.

#### · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately remove any clothing soiled by the product.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. • After swallowing:

# Rinse out mouth.

make victim drink water (maximum of 2 drinking glasses) Seek medical treatment.

• 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

(Contd. on page 3)

(Contd. of page 2)

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

In case of fire, the following can be released: Carbon monoxide and carbon dioxide Sulphur oxides (SOx) Metal oxides Forms explosive mixtures with air on intense heating.

5.3 Advice for firefighters

- · Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.
- · Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

# **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
- Wear protective equipment. Keep unprotected persons away.
- Avoid substance contact.
- Ensure adequate ventilation

#### · 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

# · 6.3 Methods and material for containment and cleaning up:

Pick up mechanically. Avoid formation of dust. Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Clean up affected area.

#### · 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 disposal information.

## **SECTION 7: Handling and storage**

• 7.1 Precautions for safe handling Any unavoidable deposit of dust must be regularly removed. · Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect from heat. Protect against electrostatic charges. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Keep receptacles tightly sealed. Store only in the original receptacle. Store in a cool location. Prevent any seepage into the ground. · Information about storage in one common storage facility: Not required. (Contd. on page 4)

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#### · Further information about storage conditions:

Keep away from open flames, hot surfaces and sources of ignition.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Open receptacle only under localised extractor facilities.

Store receptacle in a well ventilated area.

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

· Recommended storage temperature: Room Temperature

· Storage class: 4.1 B

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

### **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace: Not required.

DNELS			
Oral	Long-term - systemic effects, general population		24 mg/kg
Dermal	Long-term - local effects, worker		4,060 mg/kg
	Long term - systemic effects, general population 2,440 mg/kg		
Inhalative	Long-term - systemic effects, worker 285 mg/m3		
	Long-term - systemic effects, general population 85 mg/m3		85 mg/m3
PNECs			
Aquatic compartment - freshwater 0.137 mg/L			
Aquatic compartment - marine water 0		0.0137 mg/L	
Aquatic compartment - water, intermittent releases 0.		0.055 m	ig/L
Aquatic compartment - sediment in freshwater 4.8		4.82 mg	ı/kg
Aquatic compartment - sediment in marine water		0.482 m	ig/kg

0.882 mg/kg

1,084 mg/L

Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

Sewage treatment plant

Terrestrial compartment - soil

• Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing

Immediately remove all solled and contaminated clothin

Wash hands before breaks and at the end of work.

Vacuum clean contaminated clothing. Do not blow or brush off contamination. Avoid contact with the eyes and skin.

# · Respiratory protection:

Required when dusts are generated. Filter P2

Hand protection



Protective gloves

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

(Contd. on page 5)

Material of gloves

- (Contd. of page 4)
- 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.
- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

Value for the permeation: Level  $\geq$  480 min

• As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

Value for the permeation: Level  $\geq$  480 min

# Eye/face protection



Tightly sealed goggles

#### Body protection:

Use protective suit.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

## **SECTION 9: Physical and chemical properties**

<ul> <li>9.1 Information on basic physical and chemic</li> <li>General Information</li> </ul>	cal properties				
· Physical state	Solid				
· Colour:	Cream coloured				
· Odour:	Characteristic				
· Odour threshold:	Not determined.				
<ul> <li>Melting point/freezing point:</li> </ul>	205 °C				
<ul> <li>Boiling point or initial boiling point and boiling</li> </ul>	Boiling point or initial boiling point and boiling				
range	Undetermined.				
· Flammability	Highly flammable.				
· Lower and upper explosion limit					
· Lower:	Not determined.				
· Upper:	Not determined.				
· Flash point:	170 °C				
Auto-ignition temperature:	Not determined.				
Decomposition temperature:	380 °C				
- pH	7.5-9				
Viscosity:					
· Kinematic viscosity	Not applicable.				
· Dynamic:	Not applicable.				
Solubility					
water at 20 °C:	150 g/l				
· Partition coefficient n-octanol/water (log value) Not determined.					
· Vapour pressure:	Not applicable.				
· Density and/or relative density	· · · F.F. · · · · · · · · ·				
· Density:	Not determined.				
· Relative density	Not determined.				
· Bulk density:	600 kg/m <sup>3</sup>				
· Vapour density	Not applicable.				
	•••				
	(Contd. on page 6)				

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9.2 Other information		
· Appearance:		
· Form:	Solid in various forms	
Important information on protection of health		
and environment, and on safety.		
· Explosive properties:	Not determined.	
<sup>·</sup> Change in condition		
· Evaporation rate	Not applicable.	
Information with regard to physical ha	zard	
classes		
· Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
· Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Flammable solid.	
Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
<sup>·</sup> Substances and mixtures, which emit		
flammable gases in contact with water	Void	
<sup>·</sup> Oxidising liquids	Void	
· Oxidising solids	Void	
<sup>·</sup> Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

# **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: Heating
- 10.3 Possibility of hazardous reactions Reacts with strong oxidising agents.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:
- strong oxidants
- strong acids
- strong bases
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

### **SECTION 11: Toxicological information**

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

- · Acute toxicity
- Toxic if swallowed.

· LD/LC50 values relevant for classification:

· Compone	ents	Туре	Value	Species
Oral	LD50	280 mg/kg (rat)		
Dermal	LD50	>2,000 mg/kg (rabbit	t)	
Inhalative	LC50/4 h	>5 mg/l (rat)		
• Skin corrosion/irritation Causes skin irritation. (Contd. on page 7)				

#### · Serious eye damage/irritation

- Causes serious eye damage.
- After inhalation: Irritant to skin and mucous membranes.
- · 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

May cause respiratory irritation.

- 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.
- 11.2 Information on other hazards
- Endocrine disrupting properties Substance is not listed.

SECTION	N 12: Ecological information		
<ul> <li>• 12.1 Toxicity</li> <li>• Aquatic toxicity: No further relevant information available.</li> </ul>			
· Type of te	st Effective concentration Method Assessment		
EC50	>100 mg/l (Aquatic plants)		
	1-10 mg/l (Aquatic Invertebrata)		
EC0	>100 mg/l (micro-organisms)		
LC50/96 h	10-100 mg/l (fish)		
<ul> <li>LC50/96 h 10-100 mg/l (fish)</li> <li>12.2 Persistence and degradability The product is easily biodegradable.</li> <li>12.3 Bioaccumulative potential No further relevant information available.</li> <li>12.4 Mobility in soil No further relevant information available.</li> <li>12.5 Results of PBT and vPvB assessment</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> <li>12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.</li> <li>12.7 Other adverse effects</li> <li>Remark: Harmful to fish</li> <li>Additional ecological information:</li> <li>General notes: Do not allow product to reach ground water, water course or sewage system. Harmful to aquatic organisms</li> <li>Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Danger to drinking water if even small quantities leak into the ground.</li> </ul>			
SECTION	N 13: Disposal considerations		
	e treatment methods		

Recommendation

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:
- Recommendation:

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.

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SECTION 14: Transport information	
14.1 UN number or ID number ADR, IMDG, IATA	UN2926
• 14.2 UN proper shipping name • ADR, IMDG, IATA	FLAMMABLE SOLID, TOXIC, ORGANIC, N.O (sodium dodecyl sulfate)
14.3 Transport hazard class(es)	
ADR	
Class	4.1 (FT1) Flammable solids, self-reactive substance
	and solid desensitised explosives.
Label	4.1+6.1
IMDG	
Class	4.1 Flammable solids, self-reactive substances a solid desensitised explosives.
Label	4.1/6.1
ΙΑΤΑ	
Class	4.1 Flammable solids, self-reactive substances a
Label	solid desensitised explosives.
	4.1 (6.1)
14.4 Packing group	
	П
14.5 Environmental hazards:	Not applicable.
14.5 Environmental hazards: 14.6 Special precautions for user	Not applicable. Warning: Flammable solids, self-reactive substance and solid desensitised explosives.
14.5 Environmental hazards: 14.6 Special precautions for user Hazard identification number (Kemler code):	Not applicable. Warning: Flammable solids, self-reactive substance and solid desensitised explosives. 46
<ul> <li>14.5 Environmental hazards:</li> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> </ul>	Not applicable. Warning: Flammable solids, self-reactive substance and solid desensitised explosives. : 46 F-A,S-G
14.5 Environmental hazards: 14.6 Special precautions for user Hazard identification number (Kemler code):	Not applicable. Warning: Flammable solids, self-reactive substance and solid desensitised explosives. : 46 F-A,S-G B
<ul> <li>14.5 Environmental hazards:</li> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> </ul>	Not applicable. Warning: Flammable solids, self-reactive substance and solid desensitised explosives. : 46 F-A,S-G
<ul> <li>14.5 Environmental hazards:</li> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>14.7 Maritime transport in bulk according to IMO instruments</li> </ul>	Not applicable. Warning: Flammable solids, self-reactive substance and solid desensitised explosives. : 46 F-A,S-G B SW2 Clear of living quarters.
<ul> <li>14.5 Environmental hazards:</li> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>14.7 Maritime transport in bulk according to IMO instruments</li> <li>Transport/Additional information:</li> </ul>	Not applicable. Warning: Flammable solids, self-reactive substance and solid desensitised explosives. : 46 F-A,S-G B SW2 Clear of living quarters.
<ul> <li>Stowage Code</li> <li>14.7 Maritime transport in bulk according to</li> </ul>	Not applicable. Warning: Flammable solids, self-reactive substance and solid desensitised explosives. : 46 F-A,S-G B SW2 Clear of living quarters.
<ul> <li>14.5 Environmental hazards:</li> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>14.7 Maritime transport in bulk according to IMO instruments</li> <li>Transport/Additional information:</li> <li>ADR</li> </ul>	Not applicable. Warning: Flammable solids, self-reactive substance and solid desensitised explosives. 46 F-A,S-G B SW2 Clear of living quarters. Not applicable. 1 kg Code: E2
<ul> <li>14.5 Environmental hazards:</li> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>14.7 Maritime transport in bulk according to IMO instruments</li> <li>Transport/Additional information:</li> <li>ADR</li> <li>Limited quantities (LQ)</li> </ul>	Not applicable. Warning: Flammable solids, self-reactive substance and solid desensitised explosives. : 46 F-A,S-G B SW2 Clear of living quarters. Not applicable. 1 kg Code: E2 Maximum net quantity per inner packaging: 30 g
<ul> <li>14.5 Environmental hazards:</li> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>14.7 Maritime transport in bulk according to IMO instruments</li> <li>Transport/Additional information:</li> <li>ADR</li> <li>Limited quantities (LQ)</li> </ul>	Not applicable. Warning: Flammable solids, self-reactive substanc and solid desensitised explosives. 46 F-A,S-G B SW2 Clear of living quarters. Not applicable. 1 kg Code: E2

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Trade name: SDS

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<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 2926 FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S. (SODIUM DODECYL SULFATE), 4.1 (6.1), II

### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- Seveso category H2 ACUTE TOXIC
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

· National regulations:

- · 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**

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.

- · Department issuing SDS: Dept. Compliance
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

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 Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative
- Flam. Sol. 1: Flammable solids Category 1
- Acute Tox. 3: Acute toxicity Category 3
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Dam. 1: Serious eye damage/eye irritation Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3
- Aquatic Chronic 3: Hazardous to the aquatic environment long-term aquatic hazard Category 3

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

### Annex: Exposure scenario

· Short title of the exposure scenario Formulation and packing/repacking of substances and mixtures Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet.

(Contd. on page 10)

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(Contd. of page 9) · Conditions of use · Duration and frequency 5 workdays/week. · Physical parameters · Physical state Solid · Concentration of the substance in the mixture Raw material. · Other operational conditions Other operational conditions affecting environmental exposure No special measures required. Use only on hard ground. Other operational conditions affecting worker exposure Avoid contact with eyes. Avoid contact with the skin. Avoid breathing particles. Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking. • Other operational conditions affecting consumer exposure No special measures required. · Other operational conditions affecting consumer exposure during the use of the product Not applicable. · Risk management measures · Worker protection · Organisational protective measures No special measures required. Technical protective measures Provide explosion-proof electrical equipment. Ensure that suitable extractors are available on processing machines Use product only in enclosed systems. Personal protective measures Do not inhale dust / smoke / mist. Avoid contact with the skin. Avoid contact with the eyes. Tightly sealed goggles Required when dusts are generated. Filter P2 Protective gloves 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 · Measures for consumer protection Ensure adequate labelling. Environmental protection measures · Water No special measures required. Do not allow to reach sewage system. · Soil Prevent contamination of soil. · Disposal measures 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 Exposure estimation · Worker (dermal) The exposure estimation was carried out in accordance with ECETOC TRA. The calculated value is smaller than the DNEL. · Worker (inhalation) The exposure estimation was carried out in accordance with ECETOC TRA. The calculated value is smaller than the DNEL. · Consumer Not relevant for this Exposure Scenario. · Guidance for downstream users No further relevant information available. GB