

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.07.2026

V 4 (replaces version 3)

Revision: 23.07.2026

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

1.1 Product identifier

Trade name: **Boley S**

Article number: 508049, 508054

UFI: 8Y00-R0CF-P003-3EX5

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

1.2.1 Relevant identified uses

Application of the substance / the mixture Cleaning material/ Detergent

1.2.2 Uses advised against Applications not listed above are not recommended as they are considered unidentified.

1.3 Details of the supplier of the safety data sheet

Manufacturer:

Gebr. Boley GmbH & Co. KG

Julius-Hölder-Str. 2

D - 70597 Stuttgart

Telefon: +49-(0) 711 132 71-0

Fax: +49-(0) 711 132 71-90

Informing department: Technical customer service

1.4 Emergency telephone number:

In case of "poisoning" of any kind

Giftnotruf Berlin (24 h - emergency call): Phone: +49 30 30686 790

Poison Information Centre (VIZ) of Gesundheit Österreich GmbH: Phone: +43 1 406 43 43

Belgium Poison Control Centre: +32 70 245 245

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3	H226 Flammable liquid and vapour.
Eye Dam. 1	H318 Causes serious eye damage.
STOT SE 3	H336 May cause drowsiness or dizziness.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02

GHS05

GHS07

GHS08

Signal word Danger

Hazard-determining components of labelling:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Isobutanol

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Hydrocarbons, C9, aromatics

Hazard statements

H226 Flammable liquid and vapour.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

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

P370+P378 In case of fire: Use powder, foam or CO2 to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

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2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

The product does not contain any substance at 0.1% or more by weight that is considered persistent, bioaccumulative and toxic.

vPvB:

The product does not contain any substance at 0.1% or more by weight that is considered very persistent and very bioaccumulative.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of the substances listed below with harmless additions.

Dangerous components:		
EC number: 927-241-2 Reg.nr.: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412, EUH066	25-50%
EC number: 919-857-5 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336, EUH066	25-50%
CAS: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23	Isobutanol Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336	2.5-10%
CAS: 64742-95-6 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	0.3-2.5%
Ingredients due to Detergents Regulation 648/2044 EC:		
aliphatic hydrocarbons		≥30%
aromatic hydrocarbons		<5%

SVHC

The product does not contain substances of very high concern (REACH Regulation (EC) No 1907/2006, Article 57) in concentrations of 0.1% or more.

Additional information

Products with EC-Limit-Values are named under section 8.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Personal protection for the First Aider.

Instantly remove any clothing soiled by the product.

After inhalation No special measures required.

After skin contact Instantly rinse with water.

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

After swallowing Seek immediate medical advice.

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

Danger Danger of pneumonia.

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 CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire

Carbon monoxide (CO)

5.3 Advice for firefighters

Protective equipment: In case of fire harmful vapors may be produced. - Wear respiratory protective device.

Additional information Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Prevent material from reaching sewage system, holes and cellars.

Prevent from spreading (e.g. by damming-in or oil barriers).

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

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Ensure adequate ventilation.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers: Provide solvent resistant, sealed floor.

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

Further information about storage conditions: Protect from heat and direct sunlight.

Storage class 3

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

MAK (Germany)	Long-term value: 300 mg/m ³ , 50 ppm vgl. Abschn.Xc
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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

TRGS 900, AGW (Germany)	Long-term value: 250 mg/m ³
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78-83-1 Isobutanol

AGW (Germany)	Long-term value: 310 mg/m ³ , 100 ppm 1(l);DFG, Y
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DNELs

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Oral	long-term exposure - systemic effects	46 mg/kg bw/day (consumer)
Dermal	long-term exposure - systemic effects	77 mg/kg bw/day (worker)
		46 mg/kg bw/day (consumer)
Inhalative	long-term exposure - systemic effects	871 mg/m ³ (worker)
		185 mg/m ³ (consumer)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Oral	long-term exposure - systemic effects	125 mg/kg bw/day (consumer)
Dermal	long-term exposure - systemic effects	208 mg/kg bw/day (worker)
		125 mg/kg bw/day (consumer)
Inhalative	long-term exposure - systemic effects	871 mg/m ³ (worker)
		185 mg/m ³ (consumer)

78-83-1 Isobutanol

Inhalative	long-term exposure - systemic effects	310 mg/m ³ (worker)
		55 mg/m ³ (consumer)

64742-95-6 Hydrocarbons, C9, aromatics

Oral	long-term exposure - systemic effects	11 mg/kg bw/day (consumer)
Dermal	long-term exposure - systemic effects	25 mg/kg bw/day (worker)
		11 mg/kg bw/day (consumer)
Inhalative	long-term exposure - systemic effects	150 mg/m ³ (worker)
		32 mg/m ³ (consumer)

PNECs

78-83-1 Isobutanol

freshwater	0.4 mg/l (-)
marine water	0.04 mg/l (-)
sediment (freshwater)	1.56 mg/kg (-)
STP	10 mg/l (-)
soil	0.0756 mg/kg (-)

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sediment (marine water)	0.156 mg/kg (-)
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Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Do not eat, drink or smoke while working.

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

Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

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

Material of gloves Safety Gloves of Nitril (EN 374)

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.

Not suitable are gloves made of the following materials: Leather gloves

Eye/face protection Tightly sealed safety glasses.

Body protection: flame-retardant, antistatic protective clothing

* SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Liquid

Colour:

Colourless

Odour:

Characteristic

Odour threshold:

Not determined

Melting point/freezing point:

Not determined

Boiling point or initial boiling point and boiling range

Not determined

Flammability

Flammable.

Lower and upper explosion limit

Lower:

Not determined

Upper:

Not determined

Flash point:

26 °C (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics)

Decomposition temperature:

Not determined

pH

Not determined

Viscosity:

Kinematic viscosity

Not determined

dynamic:

Not determined

Solubility

Water:

Not miscible or difficult to mix

Partition coefficient n-octanol/water (log value)

Not determined

Vapour pressure:

Not determined

Density and/or relative density

Density at 20 °C

0.77 g/cm³

Relative density

Not determined

Vapour density

Not determined

9.2 Other information

Appearance:

Form:

Fluid

Self-flammability:

Product is not selfigniting.

Explosive properties:

The product is not explosive, but the formation of flammable vapor-air mixtures is possible.

Change in condition

Evaporation rate

Not determined

Information with regard to physical hazard classes

Flammable liquids

Flammable liquid and vapour.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

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10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if stored, handled and used as directed.

10.3 Possibility of hazardous reactions No dangerous reactions known

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known

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:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Oral	LD50	>5,000 mg/kg (rat) (OECD 401 äquivalent)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402 äquivalent)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5,000 mg/m ³ (rat)

78-83-1 Isobutanol

Oral	LD50	3,350 mg/kg (rat)
Dermal	LD50	2,460 mg/kg (rabbit)
Inhalative	LC50/6h	>18.18 mg/l (rat)

64742-95-6 Hydrocarbons, C9, aromatics

Oral	LD50	3,492 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)

Specific symptoms in biological assay:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye damage.

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 drowsiness or dizziness.

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

Aspiration hazard May be fatal if swallowed and enters airways.

Additional toxicological information: Harmful: may cause lung damage if swallowed.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

NOEC (28 d)	0.182 mg/l (Oncorhynchus mykiss / rainbow trout)
NOEC (21 d)	0.317 mg/l (Daphnia Magna)
NOEC (72 h)	<1 mg/l (Pseudokirchneriella subcapitata)
LC50/48 h	>10-<30 mg/l (Oncorhynchus mykiss / rainbow trout)
EC50/48h	>22-<46 mg/l (Daphnia pulex / Wasserfloh)
EC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

EL0/48h	1,000 mg/l (Daphnia Magna)
EL50/48h	1,000 mg/l (Daphnia Magna)
EL50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	>1,000 mg/l (Oncorhynchus mykiss / rainbow trout)

78-83-1 Isobutanol

NOEC (21 d)	20 mg/l (Daphnia Magna)
NOEC (72 h)	53 mg/l (Pseudokirchneriella subcapitata)
LC50/96 h	1,430 mg/l (Pimephales promelas)

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EC50/48h	1,100 mg/l (Daphnia pulex / Wasserfloh)
EC50/72h	632 mg/l (Pseudokirchneriella subcapitata)
64742-95-6 Hydrocarbons, C9, aromatics	
NOEC (72 h)	0.07 mg/l (Pseudokirchneriella subcapitata)
EL50/48h	3.2 mg/l (Daphnia Magna)
EL50/72h	3.8 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	9.2 mg/l (Oncorhynchus mykiss / rainbow trout)
12.2 Persistence and degradability	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	
OECD 301F (Manometric Respirometry Test)	89 % / 28 days (-)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
OECD 301F (Manometric Respirometry Test)	80 % / 28 days (-)
78-83-1 Isobutanol	
OECD 301 D (Closed-Bottle-Test)	70-80 % / 28d (-)
64742-95-6 Hydrocarbons, C9, aromatics	
OECD 301F (Manometric Respirometry Test)	78 % / 28 days (-)

12.3 Bioaccumulative potential No further relevant information available.

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 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

European waste catalogue

The information on the new European waste catalog is essentially based on the use of the product. Here we can not make specific statements about the different fields of application of our products.

Uncleaned packagings:

Recommendation: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA

UN1993

14.2 UN proper shipping name

ADR

1993 FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics)

IMDG, IATA

FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics)

14.3 Transport hazard class(es)

ADR



Class
Label

3 (F1) Flammable liquids.
3

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IMDG, IATA



Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user	Warning: Flammable liquids.
Kemler Number:	30
EMS Number:	F-E, S-E
Stowage Category	A
14.7 Maritime transport in bulk according to IMO instruments	Not applicable

Transport/Additional information:

ADR

Limited quantities (LQ)
Excepted quantities (EQ)

5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

Transport category

Tunnel restriction code

3
D/E

IMDG

Limited quantities (LQ)
Excepted quantities (EQ)

5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
UN 1993 FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS, HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS), 3, III

UN "Model Regulation":

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 product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02



GHS05



GHS07



GHS08

Signal word Danger

Hazard-determining components of labelling:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Isobutanol

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Hydrocarbons, C9, aromatics

Hazard statements

H226 Flammable liquid and vapour.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378 In case of fire: Use powder, foam or CO2 to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.

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Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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

None of the ingredients is listed.

National regulations

Decree to be applied in case of technical fault:

Class	Share in %
NK	50-100

Suisse VOC-Content: 100.00 %

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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.

Relevant phrases

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

Department issuing data specification sheet: Technical Customer Service / Regulatory Affairs

Contact:

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Date of previous version: 30.01.2026

Version number of previous version: 3

Abbreviations and acronyms:

- Flam. Liq. 3: Flammable liquids – 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
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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