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

1.1 Product identifier

Trade name	:	FIL WATER STOP 400ML DE NL
UFI	:	TWP9-A0WW-D00G-KWUX

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

Use of the Substance/Mixture	:	Care product / Polish

1.3 Details of the supplier of the safety data sheet

Supplier

Company	:	Deichmann SE Deichmannweg 9 D 45359 Essen www.deichmann.com
Telephone	:	+ 49 (0) 800 50 20 500
Telefax	:	
E-mail address	:	info@deichmann.com
Responsible/issuing person		

Manufacturer

Company	:	BNS International GmbH Rheinallee 96 55120 Mainz
Telephone	:	+49613196404
Telefax	:	+4961319642515
E-mail address	:	Produktsicherheit@werner-mertz.com
Responsible/issuing person		
Contact person	:	Product development / product safety

1.4 Emergency telephone number

Giftinformationszentrum Mainz - Tel.: +49 (6131) 19240

Manufacturer

+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.

Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Danger

Hazard statements	:	H222 Extremely flammable aerosol.
		H229 Pressurised container: May burst if heated.
		H315 Causes skin irritation.
		H319 Causes serious eye irritation.
		H336 May cause drowsiness or dizziness.
		H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	:	P102 Keep out of reach of children.
		Prevention:
		P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P211 Do not spray on an open flame or other ignition source.
		P251 Do not pierce or burn, even after use.
		P260 Do not breathe spray.
		P273 Avoid release to the environment.
		Response:
		P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
		P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		Storage:
		P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
		Disposal:
		P501 Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous components which must be listed on the label:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan
propan-2-ol

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan	01-2119475514-35	Asp. Tox. 1; H304 Flam. Liq. 2; H225 STOT SE 3; H336 Aquatic Chronic 2; H411 Skin Irrit. 2; H315	>= 10 - < 20
propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 10 - < 20
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	01-2119472146-39	Flam. Liq. 3; H226 Asp. Tox. 1; H304	>= 1 - < 10
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	919-857-5 01-2119463258-33	Asp. Tox. 1; H304 Flam. Liq. 3; H226 STOT SE 3; H336	>= 1 - < 10
C6-7 ALKANE/CYCLOALKANE	921-024-6 01-2119475514-35	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 10
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	>= 1 - < 10

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact : Protect unharmed eye.
If easy to do, remove contact lens, if worn.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	Irritation
Risks	:	No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Use mechanical handling equipment.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Do not breathe vapours or spray mist. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Do not spray on a naked flame or any incandescent material. Take measures to prevent the build up of electrostatic charge.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in original container. Store in cool place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. Store at room temperature in the original container.
Further information on storage stability	:	No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s)	:	Care product / Polish

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye/face protection	:	not required under normal use

Hand protection

Material	:	not required under normal use
Material	:	For prolonged or repeated contact use protective gloves. It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Skin and body protection	:	not required under normal use
Respiratory protection	:	Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Recommended Filter type: ABEK-P3-filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	aerosol
Colour	:	colourless
Odour	:	solvent-like
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No information available.
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	No data available

Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Flash point	:	ca. -60 °C
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
pH	:	7, 100 % at 20 °C
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Water solubility	:	in all proportions, soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	ca. 0,791 g/cm3
Relative density	:	No data available
Relative vapour density	:	No data available
Particle characteristics	:	No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.
No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Stable under recommended storage conditions. No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid	:	No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

Acute toxicity

Acute toxicity : Not Rated

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:

Acute oral toxicity : LD50 (Rat): > 5.840 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 25,2 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50: > 2.920 mg/kg
Method: OECD Test Guideline 402

propan-2-ol

67-63-0:

Acute oral toxicity : LD50 Oral (Rat): 5.840 mg/kg
Method: OECD Test Guideline 401

LD50 Oral (Rat): 4.570 mg/kg

LD50 Oral (Rat): 5.045 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 47,5 mg/l
Exposure time: 8 h
Method: OECD Test Guideline 403

LC50 (Rat): 72,6 mg/l
Exposure time: 4 h

LC50 (Mouse): 27,2 mg/l
Exposure time: 4 h

LC50 (Rat): 25 mg/l
Exposure time: 6 h
Method: OECD Test Guideline 403

LC50 (Rat): 30 mg/l
Exposure time: 4 h

LC50 (Rat): 10000 ppm
Exposure time: 6 h

Acute dermal toxicity : LD50 (Rabbit): 12.800 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 12.870 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 13.900 mg/kg
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 13.400 mg/kg

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics

Kohlenwasserstoffe, C11-C12, Isoalkane, <2% Aromaten:

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 4,951 mg/l Exposure time: 4 h Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 Dermal: > 2.000 mg/kg

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

919-857-5:

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 4951 Exposure time: 4 h Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50: > 5.000 mg/kg Method: OECD Test Guideline 402

C6-7 ALKANE/CYCLOALKANE

921-024-6:

Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 20 mg/l Exposure time: 4 h Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 Dermal (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402

n-butyl acetate

123-86-4:

Acute oral toxicity	:	LD50 Oral (Rabbit): 3.200 mg/kg LD50 Oral (Rat): 10.768 mg/kg LD50 Oral (Rat): 10.760 mg/kg Method: see user defined free text
Acute inhalation toxicity	:	LC50 (Rat): 23,4 mg/l Exposure time: 4 h Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 14.112 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:

Method : OECD Test Guideline 404
Result : Mild skin irritation
Test substance : see user defined free text

propan-2-ol

67-63-0:

Species : Rabbit
Result : No skin irritation

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

919-857-5:

Method : OECD Test Guideline 404
Result : Mild skin irritation
Test substance : see user defined free text

Serious eye damage/eye irritation

Product:

Remarks : Causes serious eye irritation.

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:

Method : OECD Test Guideline 405
Result : Mild eye irritation
Remarks : see user defined free text

propan-2-ol

67-63-0:

Species : Rabbit
Result : irritating

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

919-857-5:

Method : OECD Test Guideline 405
Result : Mild eye irritation
Remarks : see user defined free text

Respiratory or skin sensitisation

Product:

Remarks : No data available

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:

Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
Remarks	:	see user defined free text

propan-2-ol

67-63-0:

Test Type	:	Buehler Test
Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.

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

919-857-5:

Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
Remarks	:	see user defined free text

Result	:	Does not cause respiratory sensitisation.

Germ cell mutagenicity

Germ cell mutagenicity	:	Not Rated

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:

Genotoxicity in vitro	:	Method: OECD Test Guideline 471 Result: negative Remarks: see user defined free text Method: OECD Test Guideline 473 Result: negative Remarks: see user defined free text Method: OECD Test Guideline 476 Result: negative Remarks: see user defined free text Method: OECD Test Guideline 479 Result: negative Remarks: see user defined free text

propan-2-ol

67-63-0:

Genotoxicity in vitro	:	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative

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

919-857-5:

Genotoxicity in vitro : Method: OECD Test Guideline 471
Result: negative
Remarks: see user defined free text

Method: OECD Test Guideline 473
Result: negative
Remarks: see user defined free text

Method: OECD Test Guideline 476
Result: negative
Remarks: see user defined free text

Method: OECD Test Guideline 479
Result: negative
Remarks: see user defined free text

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT - single exposure

STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:

Assessment : May cause drowsiness or dizziness.

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

919-857-5:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Aspiration toxicity : Not Rated

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:

May be fatal if swallowed and enters airways.

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

919-857-5:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia magna (Water flea)): 1.000 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l
Exposure time: 72 h

EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l
Exposure time: 72 h

propan-2-ol

67-63-0:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.400 mg/l
Exposure time: 96 h

LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l
Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13.299 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 9.714 mg/l
Exposure time: 24 h

EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
GLP: no

(Daphnia (water flea)): > 10.000 mg/l
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 30 mg/l
Exposure time: 21 d

EC50 (Daphnia magna (Water flea)): 10.000 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): > 1.000 mg/l
Exposure time: 72 h
Test Type: Growth inhibition

EC50 (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
GLP: no

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l
Exposure time: 72 h

EC50 (Scenedesmus subspicatus): > 100 mg/l
Exposure time: 72 h
Test Type: static test

Toxicity to microorganisms : EC50 (Aliivibrio fischeri): 17.700 mg/l
Exposure time: 5 min

EC10 (Pseudomonas putida): 5.175 mg/l
Exposure time: 18 h
Method: DIN 38412

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics

Kohlenwasserstoffe, C11-C12, Isoalkane, <2% Aromaten:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR: 0,209 mg/l
Exposure time: 28 d
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,011 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)

NOELR: > 1 mg/l
Exposure time: 21 d
Species: Daphnia (water flea)

919-857-5:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia magna (Water flea)): 1.000 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l

Exposure time: 72 h

EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l
Exposure time: 72 h

921-024-6:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 11,4 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: see user defined free text
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 30 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,17 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Lowest Observed Effect Concentration: 0,32 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

n-butyl acetate

123-86-4:

Toxicity to fish	:	(Pimephales promelas (fathead minnow)): 18 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203 LC50 (Lepomis macrochirus (Bluegill sunfish)): 100 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia (water flea)): 56 mg/l Exposure time: 48 h EC50 (Daphnia magna (Water flea)): 44 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 674,7 mg/l Exposure time: 72 h Test Type: Growth inhibition NOEC (Desmodesmus subspicatus (green algae)): 200 mg/l
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 100 mg/l Exposure time: 16 h Test Type: Growth inhibition Method: see user defined free text (see user defined free text): 356 mg/l Exposure time: 40 h
Plant toxicity	:	EC50: > 1.000 mg/l Species: Lactuca sativa (lettuce)

12.2 Persistence and degradability

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:
Biodegradability : Result: Readily biodegradable.
Biodegradation: 80 %
Exposure time: 28 d

propan-2-ol
67-63-0:
Biodegradability : Result: rapidly biodegradable
Biodegradation: 95 %
Exposure time: 21 d
Method: OECD 301 E

Inoculum: activated sludge
Result: rapidly biodegradable
Biodegradation: 53 %
Exposure time: 5 d

Result: rapidly biodegradable
Biodegradation: > 70 %
Exposure time: 10 d
GLP: no

Biodegradation: 99,9 %
Method: see user defined free text

Chemical Oxygen Demand (COD) : 2,32 g/kg

ThOD : 2,40 g/g

919-857-5:
Biodegradability : Result: Readily biodegradable.
Biodegradation: 80 %
Exposure time: 28 d

921-024-6:
Biodegradability : Result: rapidly biodegradable
Biodegradation: 81 %
Exposure time: 28 d

n-butyl acetate
123-86-4:
Biodegradability : Result: Readily biodegradable.
Biodegradation: 98 %
Exposure time: 28 d
Method: OECD Test Guideline 301

Test Type: aerobic
Result: rapidly biodegradable
Biodegradation: 83 %
Exposure time: 28 d

Method: OECD 301 D

ThOD : 2.207 mg/g

12.3 Bioaccumulative potential

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:
Partition coefficient: n-octanol/water : log Pow: 1,99 - 6,73 (20 °C)
pH: 7

propan-2-ol
67-63-0:
Bioaccumulation : Bioconcentration factor (BCF): 3

Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 0,05

n-butyl acetate
123-86-4:
Bioaccumulation : Bioconcentration factor (BCF): 4 - 14

Partition coefficient: n-octanol/water : log Pow: 1,81 (23 °C)
Method: OECD Test Guideline 107

12.4 Mobility in soil

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:
Distribution among environmental compartments : Remarks: The product evaporates readily.

propan-2-ol
67-63-0:
Distribution among environmental compartments : Koc: 25
Remarks: Highly mobile in soils

919-857-5:
Distribution among environmental compartments : Remarks: The product evaporates readily.

n-butyl acetate
123-86-4:
Distribution among environmental compartments : Koc: 200

12.5 Results of PBT and vPvB assessment

Components:

Hydrocarbons C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexan:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

propan-2-ol
67-63-0:
Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

919-857-5:
Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Empty pressure vessels should be returned to the supplier.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : 1950
IMDG : 1950
IATA : 1950

14.2 UN proper shipping name

ADR : AEROSOLS

IMDG : AEROSOLS

IATA : Aerosols, flammable

14.3 Transport hazard class(es)

ADR : 2

IMDG : 2.1
IATA : 2.1

14.4 Packing group
ADR
Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)
IMDG
Labels : 2.1
EmS Number : F-D, S-U
IATA
(Cargo) : Aerosols, flammable
(Passenger) : Aerosols, flammable
Labels : 2.1

14.5 Environmental hazards
ADR
Environmentally hazardous : no

IMDG
Marine pollutant : no
IATA
Environmentally hazardous : no

14.6 Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments
Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : 106-97-8
71-43-2

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOLS	150 000067	500 000067

TA Luft List (Germany)
: Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapour or gaseous form: Not applicable
: Organic Substances: Not applicable
: Carcinogenic substances: : portionClass 3: < 0,01 %
: Mutagenic: : < 0,01 %
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Update: Percent volatile: 99 % 0 %
according to Detergents Regulation EC 648/2004	:	>=30% aliphatic hydrocarbons

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H225	:	Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
H411	:	Toxic to aquatic life with long lasting effects.
EUH066	:	Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Skin Irrit.	:	Skin irritation
STOT SE	:	Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical

Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:		**Classification procedure:**
Aerosol 1	H222, H229	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Chronic 3	H412	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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