Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP DOT 3 Brake Fluid

Version number: 5.0
Replaces version of: 2024-11-06 (4)

Revision: 2025-05-02

SECTION 1: Identification

1.1 Product identifier

Trade name **STP DOT 3 Brake Fluid**

Alternative number(s) 067788184940

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

Relevant identified uses General use

1.3 Details of the supplier of the safety data sheet

Energizer Manufacturing, Inc.
25225 Detroit Rd.
Westlake OH 44145
United States

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)
e-mail: Autocare.regulatory@energizer.com
Website: https://data.energizer.com

1.4 Emergency telephone number

Emergency information service

FOR EMERGENCY in USA & Canada CALL +1 800 255-3924 / For International CALL +1 813 248 0585
This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard state-ment
A.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS05, GHS08

- Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H373	May cause damage to organs (kidney) through prolonged or repeated exposure (if swallowed).

- Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves.
P302+P352	If on skin: Wash with plenty of 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.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/container in accordance with national regulations.

- Hazardous ingredients for labelling: diethylene glycol, Triethylene Glycol Butyl Ether, sodium hydroxide

2.3 Other hazards

Hazards not otherwise classified

May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).
Harmful to aquatic life with long lasting effects (GHS category 3: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0.1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0.1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Triethylene Glycol Butyl Ether	CAS No 143-22-6	25 – < 50	Eye Dam. 1 / H318	

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Diethylene glycol monobutyl ether	CAS No 112-34-5	10 – < 25	Eye Irrit. 2 / H319	
diethylene glycol	CAS No 111-46-6	5 – < 10	Acute Tox. 4 / H302 Acute Tox. 4 / H332 STOT RE 2 / H373	
1,1'-iminodipropan-2-ol	CAS No 110-97-4	1 – < 5	Eye Irrit. 2 / H319	
2-(2-methoxyethoxy)ethanol	CAS No 111-77-3	1 – < 5	Repr. 1B / H360D	
sodium hydroxide	CAS No 1310-73-2	1 – < 5	Acute Tox. 4 / H302 Skin Corr. 1A / H314 Eye Dam. 1 / H318 Met. Corr. 1 / H290	

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
US	diethylene glycol monobutyl ether	112-34-5	TLV®	10						iv	ACGIH® 2024
US	2,6-di-tert-butyl-p-cresol	128-37-0	PEL (CA)		10						Cal/OSHA PEL
US	2,6-di-tert-butyl-p-cresol	128-37-0	REL		10 (10 h)						NIOSH REL
US	butylated hydroxytoluene	128-37-0	TLV®		2					iv	ACGIH® 2024
US	sodium hydroxide	1310-73-2	REL						2		NIOSH REL
US	sodium hydroxide	1310-73-2	TLV®						2		ACGIH® 2024
US	sodium hydroxide	1310-73-2	PEL		2						29 CFR 1910.1000
US	sodium hydroxide (caustic soda)	1310-73-2	PEL (CA)						2		Cal/OSHA

Occupational exposure limit values (Workplace Exposure Limits)											
Country	**Name of agent**	**CAS No**	**Identifier**	**TWA [ppm]**	**TWA [mg/m³]**	**STEL [ppm]**	**STEL [mg/m³]**	**Ceiling-C [ppm]**	**Ceiling-C [mg/m³]**	**Notation**	**Source**
											PEL

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
iv	inhalable fraction and vapor
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified

Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Triethylene Glycol Butyl Ether	143-22-6	DNEL	195 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Triethylene Glycol Butyl Ether	143-22-6	DNEL	208 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Diethylene glycol monobutyl ether	112-34-5	DNEL	67.5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Diethylene glycol monobutyl ether	112-34-5	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Diethylene glycol monobutyl ether	112-34-5	DNEL	67.5 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Diethylene glycol monobutyl ether	112-34-5	DNEL	101.2 mg/m³	human, inhalatory	worker (industry)	acute - local effects
diethylene glycol	111-46-6	DNEL	44 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
diethylene glycol	111-46-6	DNEL	60 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
diethylene glycol	111-46-6	DNEL	43 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1,1'-iminodipropan-2-ol	110-97-4	DNEL	6.4 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
1,1'-iminodipropan-2-ol	110-97-4	DNEL	5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
1,1'-iminodipropan-2-ol	110-97-4	DNEL	120 µg/cm²	human, dermal	worker (industry)	chronic - local effects
2-(2-methoxyeth-	111-77-3	DNEL	50.1 mg/m³	human, inhalat-	worker (industry)	chronic - systemic

Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
oxy)ethanol				ory		effects
2-(2-methoxyeth-oxy)ethanol	111-77-3	DNEL	2.22 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
sodium hydroxide	1310-73-2	DNEL	1 mg/m³	human, inhalat-ory	worker (industry)	chronic - local ef-fects

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Triethylene Glycol Butyl Ether	143-22-6	PNEC	2 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Triethylene Glycol Butyl Ether	143-22-6	PNEC	0.2 mg/l	aquatic organ-isms	marine water	short-term (single instance)
Triethylene Glycol Butyl Ether	143-22-6	PNEC	200 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Triethylene Glycol Butyl Ether	143-22-6	PNEC	7.7 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Triethylene Glycol Butyl Ether	143-22-6	PNEC	0.77 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Triethylene Glycol Butyl Ether	143-22-6	PNEC	0.47 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	200 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	1.1 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	0.11 mg/l	aquatic organ-isms	marine water	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	4.4 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	0.44 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
Diethylene glycol monobutyl ether	112-34-5	PNEC	0.32 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
diethylene glycol	111-46-6	PNEC	10 mg/l	aquatic organ-isms	freshwater	short-term (single instance)
diethylene glycol	111-46-6	PNEC	1 mg/l	aquatic organ-isms	marine water	short-term (single instance)
diethylene glycol	111-46-6	PNEC	199.5 mg/l	aquatic organ-	sewage treatment	short-term (single

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
				isms	plant (STP)	instance)
diethylene glycol	111-46-6	PNEC	20.9 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
diethylene glycol	111-46-6	PNEC	2.09 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
diethylene glycol	111-46-6	PNEC	1.53 mg/kg	terrestrial organisms	soil	short-term (single instance)
1,1'-iminodipropan-2-ol	110-97-4	PNEC	0.278 mg/l	aquatic organisms	freshwater	short-term (single instance)
1,1'-iminodipropan-2-ol	110-97-4	PNEC	0.028 mg/l	aquatic organisms	marine water	short-term (single instance)
1,1'-iminodipropan-2-ol	110-97-4	PNEC	15,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,1'-iminodipropan-2-ol	110-97-4	PNEC	2.33 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1,1'-iminodipropan-2-ol	110-97-4	PNEC	0.233 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1,1'-iminodipropan-2-ol	110-97-4	PNEC	0.303 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-(2-methoxyethoxy)ethanol	111-77-3	PNEC	12 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-(2-methoxyethoxy)ethanol	111-77-3	PNEC	1.2 mg/l	aquatic organisms	marine water	short-term (single instance)
2-(2-methoxyethoxy)ethanol	111-77-3	PNEC	10,000 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(2-methoxyethoxy)ethanol	111-77-3	PNEC	44.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-(2-methoxyethoxy)ethanol	111-77-3	PNEC	0.44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-(2-methoxyethoxy)ethanol	111-77-3	PNEC	2.1 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	not determined
Particle	not relevant (liquid)
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	193 °C at 760 mmHg
Flash point	not determined
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)

Explosive limits

- Lower explosion limit (LEL)	1.3 vol%
- Upper explosion limit (UEL)	9.9 vol%
Vapor pressure	0.25 mmHg at 25 °C
Density	not determined

Vapor density	this information is not available
Relative density	Information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	202 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

9.2 Other information

Temperature class (USA, acc. to NEC 500)	T3 (maximum permissible surface temperature on the equipment: 200°C)

SECTION 10: Stability and reactivity

10.1 Reactivity
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability
See below "Conditions to avoid".

10.3 Possibility of hazardous reactions
No known hazardous reactions.

10.4 Conditions to avoid
There are no specific conditions known which have to be avoided.

10.5 Incompatible materials
Oxidizers

10.6 Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Based on available data, the classification criteria are not met.
GHS of the United Nations, annex 4: May be harmful in contact with skin.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Triethylene Glycol Butyl Ether	143-22-6	dermal	3,540 $^{mg}/_{kg}$
Diethylene glycol monobutyl ether	112-34-5	oral	2,410 $^{mg}/_{kg}$
Diethylene glycol monobutyl ether	112-34-5	dermal	2,764 $^{mg}/_{kg}$
diethylene glycol	111-46-6	oral	1,120 $^{mg}/_{kg}$
diethylene glycol	111-46-6	inhalation: vapor	11 $^{mg}/_{l}$/4h
diethylene glycol	111-46-6	inhalation: dust/mist	>4.6 $^{mg}/_{l}$/4h
1,1'-iminodipropan-2-ol	110-97-4	oral	>2,000 $^{mg}/_{kg}$
sodium hydroxide	1310-73-2	oral	325 $^{mg}/_{kg}$

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

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.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

May cause damage to organs (kidney) through prolonged or repeated exposure (if swallowed).

Hazard category	Target organ	Exposure route
2	kidney	if swallowed

Aspiration hazard

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

STP DOT 3 Brake Fluid

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Triethylene Glycol Butyl Ether	143-22-6	LC50	4,600 $^{mg}/_{l}$	fish	96 h
Triethylene Glycol Butyl Ether	143-22-6	EC50	780 $^{mg}/_{l}$	algae	72 h
Triethylene Glycol Butyl Ether	143-22-6	ErC50	840 $^{mg}/_{l}$	algae	72 h
Triethylene Glycol Butyl Ether	143-22-6	NOEC	1,000 $^{mg}/_{l}$	fish	96 h
Diethylene glycol monobutyl ether	112-34-5	LC50	1,300 $^{mg}/_{l}$	fish	96 h
Diethylene glycol monobutyl ether	112-34-5	EC50	>100 $^{mg}/_{l}$	aquatic invertebrates	48 h
Diethylene glycol monobutyl ether	112-34-5	ErC50	>100 $^{mg}/_{l}$	algae	96 h
Diethylene glycol monobutyl ether	112-34-5	NOEC	≥100 $^{mg}/_{l}$	aquatic invertebrates	48 h
diethylene glycol	111-46-6	LC50	75,200 $^{mg}/_{l}$	fish	96 h
diethylene glycol	111-46-6	EC50	>10,000 $^{mg}/_{l}$	aquatic invertebrates	24 h
1,1'-iminodipropan-2-ol	110-97-4	LC50	1,466 $^{mg}/_{l}$	fish	96 h
1,1'-iminodipropan-2-ol	110-97-4	EC50	277.7 $^{mg}/_{l}$	aquatic invertebrates	48 h
1,1'-iminodipropan-2-ol	110-97-4	ErC50	339 $^{mg}/_{l}$	algae	72 h
1,1'-iminodipropan-2-ol	110-97-4	NOEC	464 $^{mg}/_{l}$	fish	96 h
1,1'-iminodipropan-2-ol	110-97-4	LOEC	250 $^{mg}/_{l}$	algae	72 h
2-(2-methoxyethoxy)ethan-ol	111-77-3	LC50	5,741 $^{mg}/_{l}$	fish	96 h
2-(2-methoxyethoxy)ethan-ol	111-77-3	EC50	1,192 $^{mg}/_{l}$	aquatic invertebrates	48 h
sodium hydroxide	1310-73-2	LC50	<180 $^{mg}/_{l}$	fish	96 h
sodium hydroxide	1310-73-2	EC50	40.4 $^{mg}/_{l}$	aquatic invertebrates	48 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Triethylene Glycol Butyl Ether	143-22-6	NOEC	>100 $^{mg}/_{l}$	aquatic invertebrates	21 d
2-(2-methoxyethoxy)ethan-ol	111-77-3	EC50	>1,000 $^{mg}/_{l}$	microorganisms	30 min
sodium hydroxide	1310-73-2	EC50	22 $^{mg}/_{l}$	microorganisms	15 min

12.2 Persistence and degradability
Data are not available.

12.3 Bioaccumulative potential
Data are not available.

12.4 Mobility in soil
Data are not available.

12.5 Results of PBT and vPvB assessment
Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0.1%.

12.6 Endocrine disrupting properties
Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0.1%.

12.7 Other adverse effects
Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number	not subject to transport regulations
14.2 UN proper shipping name	not relevant
Technical name (hazardous ingredients)	sodium hydroxide
14.3 Transport hazard class(es)	none

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

DOT

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Not subject to transport regulations.

Reportable quantity (RQ) 100,000 lbs (45,400 kg) (sodium hydroxide)

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed or exempt from listing

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
sodium hydroxide	1310-73-2		1	1000 (454)

Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Triethylene Glycol Butyl Ether		1022			1.0 %
2-(2-methoxyethoxy)ethanol		1022			1.0 %
sodium hydroxide	1310-73-2				1.0 %
Diethylene glycol monobutyl ether		1022			1.0 %
diethylene glycol		1022			1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
sodium hydroxide	1310-73-2	A, N, O	
diethylene glycol	111-46-6	I	

Legend

A	American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
I	American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA
N	National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
O	Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Triethylene Glycol Butyl Ether			
2-(2-methoxyethoxy)ethanol			
sodium hydroxide	1310-73-2		CO R1
Diethylene glycol monobutyl ether			
diethylene glycol			

Legend

CO	Corrosive

Legend

R1 Reactive - First Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
GLYCOL ETHERS		E
ETHANOL, 2-(2-METHOXYETHOXY)-	111-77-3	
2-PROPANOL, 1,1'-IMINOBIS-	110-97-4	
SODIUM HYDROXIDE (NA(OH))	1310-73-2	E
GLYCOL ETHERS		E
ETHANOL, 2,2'-OXYBIS-	111-46-6	
GLYCOL ETHERS		E

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
sodium hydroxide	1310-73-2	T, F
sodium hydroxide	1310-73-2	T, F
sodium hydroxide	1310-73-2	T, F
diethylene glycol	111-46-6	F

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.