

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 9/23/2022 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form Product code	: Mixture : 1995HOT	
1.2. Recommended use and restrictions or	n use	
No additional information available		
1.3. Supplier		
KARCHER NORTH AMERICA 6398 N Karcher Way Aurora, 80019 United States T 303-738-2400 info@karcherna.com		
1.4. Emergency telephone number		
Emergency number	: 800-535-5053 For Chemical Emergency Call INFOTRAC 24hr/day 7days/week Within USA and Canada: 1-800-535-5053 Outside USA and Canada: 011-1-352-323-3500 (collect calls accepted)	
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mixture		

#### **GHS US classification**

Flammable liquids Category 4	H227	Combustible liquid
Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Specific target organ toxicity – Single exposure, Category 3,	H335	May cause respiratory irritation
Respiratory tract irritation		
Hazardous to the aquatic environment – Acute Hazard Category 3	H402	Harmful to aquatic life
Hazardous to the aquatic environment – Chronic Hazard Category 3	H412	Harmful to aquatic life with long lasting effects
Full text of H statements : see section 16		

2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)

- : Danger
- : H227 Combustible liquid
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H332 Harmful if inhaled
- H335 May cause respiratory irritation

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	H402 - Harmful to aquatic life
	H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS US)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P273 - Avoid release to the environment.
	P280 - Wear protective gloves, protective clothing, eye protection, face protection.
	P302+P352 - If on skin: Wash with plenty of water.
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
	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, a doctor.
	P312 - Call a POISON CENTER, a doctor if you feel unwell.
	P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P362+P364 - Take off contaminated clothing and wash it before reuse.
	P370+P378 - In case of fire: Use carbon dioxide (CO2), foam to extinguish.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
	P403+P235 - Store in a well-ventilated place. Keep cool.
	P405 - Store locked up.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation.
2.3. Other hazards which do not result in cla	ssification

Other hazards which do not result in classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

## **SECTION 3: Composition/Information on ingredients**

### 3.1. Substances

## Not applicable

<b>Mixtures</b>

Name	Product identifier	%
BUTHOXYETHANOL	CAS-No.: 111-76-2	30 – 50
ALCOHOLS, C6-C12, ETHOXYLATED	CAS-No.: 68439-45-2	20 – 30
ALKYL (C10-C16) BENZENESULFONIC ACID	CAS-No.: 68584-22-5	11.025 – 12.25
ALKYLDIPHENYLOXIDE DISULFONATE	CAS-No.: 119345-04- 9	1 – 5
PHOSPHORIC ACID	CAS-No.: 7664-38-2	1.225 – 2.45
SULFURIC ACID	CAS-No.: 7664-93-9	0.123 – 0.368

Full text of hazard classes and H-statements : see section 16

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

4.1. Description of first aid measures	
First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effects	(acute and delayed)
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul> <li>May cause respiratory irritation.</li> <li>Irritation.</li> <li>Serious damage to eyes.</li> </ul>

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chemi	cal	
Explosion hazard	<ul> <li>Combustible liquid.</li> <li>No direct explosion hazard.</li> <li>Toxic fumes may be released.</li> </ul>	
5.3. Special protective equipment and precautions for fire-fighters		
Firefighting instructions Protection during firefighting	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective	e equipment and emergency procedures	
General measures	: Do not handle until all safety precautions have been read and understood.	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust, fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		

Avoid release to the environment.

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up	<ul> <li>Collect spillage.</li> <li>Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public</li> </ul>	
Other information	waters. : Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	<ul> <li>Not expected to present a significant hazard under anticipated conditions of normal use.</li> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.</li> </ul>
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Technical measures Storage conditions	<ul> <li>Comply with applicable regulations.</li> <li>Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.</li> </ul>

### SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BULKIE FW LIQUID ADDITIVE		
No additional information available		
BUTHOXYETHANOL (111-76-2)		
USA - ACGIH - Occupational Exposure Limits		
Local name	2-Butoxyethanol (EGBE)	
ACGIH OEL TWA [ppm]	20 ppm	
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI	
ACGIH 2019		
USA - OSHA - Occupational Exposure Limits		
Local name	2-Butoxyethanol	
OSHA PEL TWA [1]	240 mg/m <sup>3</sup>	
OSHA PEL TWA [2]	50 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2)		
No additional information available		

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Appropriate engineering controls : Ensure good ventilation of the work station.   Environmental exposure controls : Avoid release to the environment.   8.3. Individual protection measures/Personal protective equipment   Hand protection:   Protective gloves   Eye protection:   Safety glasses   Skin and body protection:   Wear suitable protective clothing   Respiratory protection:   Wear respiratory protection.			
ALKYL (C10-C16) BENZENESULFONIC ACID (68584-22-5) No additional information available SULFURIC ACID (7664-93-9) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 0.2 mg/m³ (Thoracic fraction) ALKYLDIPHENYLOXIDE DISULFONATE (119345-04-9) No additional information available 82. Appropriate engineering controls Acpropriate engineering controls Acpropriate engineering controls As3. Individual protection measures/Personal protective equipment Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection: Wear respiratory protection:	PHOSPHORIC ACID (7664-38-2)		
No additional information available SULFURIC ACID (7664-93-9) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 0.2 mg/m³ (Thoracic fraction) ALKYLDIPHENYLOXIDE DISULFONATE (119345-04-9) No additional information available 8.2. Appropriate engineering controls ALAppropriate engineering controls ALAppropriate engineering controls A. Avoid release to the environment. 8.3. Individual protection measures/Personal protective equipment Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection.	No additional information available		
SULFURIC ACID (7664-93-9) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 0.2 mg/m³ (Thoracic fraction) ALKYLDIPHENYLOXIDE DISULFONATE (119345-04-9) No additional information available 8.2. Appropriate engineering controls 8.2. Appropriate engineering controls 8.2. Appropriate engineering controls Appropriate engineering controls A. Avoid release to the environment. 8.3. Individual protection measures/Personal protective equipment Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection. Wear respiratory protection.	ALKYL (C10-C16) BENZENESULFONIC ACID	(68584-22-5)	
USA - ACGIH - Occupational Exposure Limits         ACGIH OEL TWA       0.2 mg/m³ (Thoracic fraction)         ALKYLDIPHENYLOXIDE DISULFONATE (119345-04-9)         No additional information available         8.2. Appropriate engineering controls         RA, Appropriate engineering controls         ALYLDIPHENYLOXIDE DISULFONATE (119345-04-9)         No additional information available         8.2. Appropriate engineering controls         E. Appropriate engineering controls         E. Avoid release to the environment.         8.3. Individual protection measures/Personal protective equipment         Hand protection:         Protective gloves         Eye protection:         Safety glasses         Skin and body protection:         Wear suitable protection:         Wear respiratory protection.	No additional information available		
ACGIH OEL TWA       0.2 mg/m³ (Thoracic fraction)         ALKYLDIPHENYLOXIDE DISULFONATE (119345-04-9)         No additional information available         8.2. Appropriate engineering controls         Appropriate engineering controls         Environmental exposure controls         Environmental exposure controls         Environmental exposure controls         S.1. Individual protection measures/Personal protective equipment         Hand protection:         Protective gloves         Eye protection:         Safety glasses         Skin and body protection:         Wear suitable protection:         Respiratory protection.         Wear respiratory protection.	SULFURIC ACID (7664-93-9)		
ALKYLDIPHENYLOXIDE DISULFONATE (119345-04-9)         No additional information available         8.2. Appropriate engineering controls         Appropriate engineering controls         Appropriate engineering controls         Appropriate engineering controls         S.2. Appropriate engineering controls         Appropriate engineering controls         Appropriate engineering controls         S.2. Appropriate engineering controls         Appropriate engineering controls         S.3. Individual protection measures/Personal protective equipment         Hand protection:         Protective gloves         Eye protection:         Safety glasses         Skin and body protection:         Wear suitable protective clothing         Respiratory protection:         Wear respiratory protection.	USA - ACGIH - Occupational Exposure Limits		
No additional information available  8.2. Appropriate engineering controls Appropriate engineering controls  Appropriate engineering controls  Environmental exposure controls  Avoid release to the environment.  8.3. Individual protection measures/Personal protective equipment  Hand protection: Protective gloves  Eye protection: Safety glasses  Skin and body protection: Wear suitable protective clothing  Respiratory protection.	ACGIH OEL TWA	0.2 mg/m <sup>3</sup> (Thoracic fraction)	
8.2. Appropriate engineering controls   Appropriate engineering controls   Environmental exposure controls   : Avoid release to the environment.   8.3. Individual protection measures/Personal protective equipment   Hand protection:   Protective gloves   Eye protection:   Safety glasses   Skin and body protection:   Wear suitable protective clothing   Respiratory protection:   Wear respiratory protection.	ALKYLDIPHENYLOXIDE DISULFONATE (1193	345-04-9)	
Appropriate engineering controls : Ensure good ventilation of the work station.   Environmental exposure controls : Avoid release to the environment.   8.3. Individual protection measures/Personal protective equipment   Hand protection:   Protective gloves   Eye protection:   Safety glasses   Skin and body protection:   Wear suitable protective clothing   Respiratory protection:   Wear respiratory protection.	No additional information available		
Environmental exposure controls : Avoid release to the environment.  8.3. Individual protection measures/Personal protective equipment Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection: Wear respiratory protection.	8.2. Appropriate engineering controls		
8.3. Individual protection measures/Personal protective equipment Hand protection: Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection: Wear respiratory protection.			
Hand protection:   Protective gloves   Eye protection:   Safety glasses   Skin and body protection:   Wear suitable protective clothing   Respiratory protection:   Wear respiratory protection.	Environmental exposure controls :	Avoid release to the environment.	
Protective gloves Eye protection: Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection: Wear respiratory protection.	8.3. Individual protection measures/Personal protective equipment		
Eye protection:         Safety glasses         Skin and body protection:         Wear suitable protective clothing         Respiratory protection:         Wear respiratory protection.	Hand protection:		
Safety glasses Skin and body protection: Wear suitable protective clothing Respiratory protection: Wear respiratory protection.	Protective gloves		
Skin and body protection:         Wear suitable protective clothing         Respiratory protection:         Wear respiratory protection.	Eye protection:		
Wear suitable protective clothing Respiratory protection: Wear respiratory protection.	Safety glasses		
Respiratory protection: Wear respiratory protection.	Skin and body protection:		
Wear respiratory protection.	Wear suitable protective clothing		
	Respiratory protection:		
Personal protective equipment symbol(s):	Wear respiratory protection.		
	Personal protective equipment symbol(s):		



SECTION 9: Physical and chemical properties	
9.1. Information on basic physical a	la chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Color	Colorless
Odor	: Characteristic odour
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### **10.2. Chemical stability**

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

**10.5. Incompatible materials** 

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

		_
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Harmful if inhaled.</li> </ul>	
BULKIE FW LIQUID ADDITIVE		
ATE US (dust, mist)	3.222 mg/l/4h	
BUTHOXYETHANOL (111-76-2)		
LD50 oral rat	1746 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental valu Oral, 14 day(s))	ıe,
LC50 Inhalation - Rat	> 4.26 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))	
ATE US (oral)	1414 mg/kg body weight	
9/23/2022 (Issue date)	EN (English US)	6/11

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

BUTHOXYETHANOL (111-76-2)		
ATE US (dermal)	1100 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
ALCOHOLS, C6-C12, ETHOXYLATED (68439-	45-2)	
LD50 oral rat	> 1000 mg/kg (Rat, Oral)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Dermal)	
ALKYL (C10-C16) BENZENESULFONIC ACID	(68584-22-5)	
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 Inhalation - Rat	> 1.9 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)	
SULFURIC ACID (7664-93-9)		
LD50 oral rat	2140 mg/kg body weight (Rat, Experimental value, Oral)	
ATE US (oral)	2140 mg/kg body weight	
ALKYLDIPHENYLOXIDE DISULFONATE (119345-04-9)		
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: other:Method B1 in Commission Directive 84/449/EEC	
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:Method 83 in Commission Directive 84/449/EEC	
	Causes skin irritation.	
	Causes serious eye damage.	
Respiratory or skin sensitization :	Not classified	
	Not classified	
Carcinogenicity :	Not classified	
BUTHOXYETHANOL (111-76-2)		
IARC group	3 - Not classifiable	
SULFURIC ACID (7664-93-9)		
National Toxicity Program (NTP) Status	Known Human Carcinogens	
	Not classified	
	May cause respiratory irritation.	
BUTHOXYETHANOL (111-76-2)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	Not classified	
BUTHOXYETHANOL (111-76-2)		
NOAEL (dermal,rat/rabbit,90 days)	> 150 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)	
ALKYL (C10-C16) BENZENESULFONIC ACID	(68584-22-5)	
NOAEL (oral,rat,90 days)	500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)	

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ALKYL (C10-C16) BENZENESULFONIC ACID (68584-22-5)	
> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)	
: Not classified	
: No data available	
: May cause respiratory irritation.	
: Irritation.	
: Serious damage to eyes.	

## **SECTION 12: Ecological information**

12.1. Toxicity	
Ecology - general : Harmful to aquatic life. Harmful to aquatic life with long lasting effects.	
BUTHOXYETHANOL (111-76-2)	
LC50 - Fish [1]	1474 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	1550 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	1840 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '21 d'
PHOSPHORIC ACID (7664-38-2)	
LC50 - Fish [1]	138 mg/l (Pisces, Pure substance)
SULFURIC ACID (7664-93-9)	
LC50 - Fish [1]	42 mg/l (96 h, Gambusia affinis)
EC50 - Crustacea [1]	29 mg/l (24 h, Daphnia magna)
12.2. Persistence and degradability	
BUTHOXYETHANOL (111-76-2)	
Demoleters and demodels (2) a	Dear the black was debted as western

Persistence and degradability	Readily biodegradable in water.	
ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2)		
Persistence and degradability	Readily biodegradable in water.	
PHOSPHORIC ACID (7664-38-2)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
SULFURIC ACID (7664-93-9)		
Persistence and degradability	Biodegradability: not applicable.	

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SULFURIC ACID (7664-93-9)		
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
12.3. Bioaccumulative potential		
BUTHOXYETHANOL (111-76-2)		
Partition coefficient n-octanol/water (Log Pow)	0.81 (Experimental value, BASF test, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
ALCOHOLS, C6-C12, ETHOXYLATED (68439-45-2)		
Partition coefficient n-octanol/water (Log Pow)	3.01 (Estimated value)	
Bioaccumulative potential	Not bioaccumulative.	
PHOSPHORIC ACID (7664-38-2)		
Bioaccumulative potential	Does not contain bioaccumulative component(s).	
SULFURIC ACID (7664-93-9)		
Partition coefficient n-octanol/water (Log Pow)	-2.2 (Estimated value)	
Bioaccumulative potential	Not bioaccumulative.	

## 12.4. Mobility in soil

BUTHOXYETHANOL (111-76-2)		
Surface tension	65.03 mN/m (20 °C, 2 g/l)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.451 – 0.882 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	
PHOSPHORIC ACID (7664-38-2)		
Ecology - soil	No (test)data on mobility of the component(s) available.	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Regional legislation (waste) Waste treatment methods	<ul> <li>Disposal must be done according to official regulations.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> </ul>

SECTION 14: Transport information		
14.1. UN number		
DOT NA No	: UN1760	

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Corrosive liquids, n.o.s., (SULFONIC ACID DDBSA), 8, II
14.3. Transport hazard class(es)	
<b>DOT</b> Transport hazard class(es) (DOT) Hazard labels (DOT)	: 8 : 8 CORDOSIVE
14.4. Packing group	
Packing group (DOT)	: 11
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT)	: UN1760
14.7. Transport in bulk according to Annex	k II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

#### **15.1. US Federal regulations**

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

PHOSPHORIC ACID (7664-38-2)	
CERCLA RQ	5000 lb

SULFURIC ACID (7664-93-9)		
CERCLA RQ	1000 lb	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb	
15.2. International regulations		
SULFURIC ACID (7664-93-9)		
Listed as carcinogen on NTP (National Toxicology Program)		

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 15.3. US State regulations

This product can expose you to ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases			
H227	Combustible liquid	Combustible liquid	
H315	Causes skin irritation	Causes skin irritation	
H318	Causes serious eye damage	Causes serious eye damage	
H332	Harmful if inhaled	Harmful if inhaled	
H335	May cause respiratory irritation	May cause respiratory irritation	
H402	Harmful to aquatic life	Harmful to aquatic life	
H412	Harmful to aquatic life with long lasting effect	Harmful to aquatic life with long lasting effects	
NFPA health h		als that, under emergency conditions, can cause temporary tion or residual injury.	
NFPA fire haza NFPA reactivit		als that must be preheated before ignition can occur. al that in themselves are normally stable, even under fire	

Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	<ul> <li>1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)</li> </ul>
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: B - Safety glasses, Gloves
Safety Data Sheet (SDS) USA	

conditions.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.