

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 7/19/2022 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form Product code	: Mixture : 5354HOT	
1.2. Recommended use and restrictions of	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 mix	ture	
GHS US classification		
Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1 Carcinogenicity Category 1A Full text of H statements : see section 16	H314Causes severe skin burns and eye damageH318Causes serious eye damageH350May cause cancer (Dermal, Inhalation, oral)	
2.2. GHS Label elements, including precau	Itionary statements	
GHS US labeling		
Hazard pictograms (GHS US)		
Signal word (GHS US) Hazard statements (GHS US)	 Danger H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H350 - May cause cancer (Dermal, Inhalation, oral) 	
Precautionary statements (GHS US)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves, protective clothing, eye protection, face protection. 	

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P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
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
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a POISON CENTER, a doctor
P363 - Wash contaminated clothing before reuse.
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 classification

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

3.2. Mixtures			
Name	Product identifier	%	
SULFURIC ACID	CAS-No.: 7664-93-9	5 – 10	
PHOSPHORIC ACID	CAS-No.: 7664-38-2	5 – 10	
ALCOHOLS, C8-C10, ETHOXYLATED	CAS-No.: 71060-57-6	1 – 5	
BUTHOXYETHANOL	CAS-No.: 111-76-2	1 – 5	

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

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Call a physician immediately.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.	
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	: Rinse mouth. Do not induce vomiting. Call a physician immediately.	
4.2. Most important symptoms and effects (acute and delayed)		
Symptoms/effects after skin contact	: Burns.	
Symptoms/effects after eye contact	: Serious damage to eyes.	
Symptoms/effects after ingestion	: Burns.	
4.3. Immediate medical attention and special treatment, if necessary		
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Treat symptomatically.

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SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	g media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chem	nical	
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Heating increases the fire hazard. No direct explosion hazard. Toxic fumes may be released. 	
5.3. Special protective equipment and prec	autions for fire-fighters	
Firefighting instructions Protection during firefighting	 Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective 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	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust, fume, gas, mist, spray, vapors.		
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.	Environ	mental	precautions
0.2.		mentai	precuations

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
For containment	: Absorb spilled material with sand or earth.	
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
Other information	: 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	 Not expected to present a significant hazard under anticipated conditions of normal use. Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapors.

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Hygiene measures :	Separate working clothes from town clothes. Launder separately. 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, including any	y incompatibilities
	Comply with applicable regulations. Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

POLISHED ALUMINUM & STAINLESS STEEL	CLEANER		
No additional information available			
PHOSPHORIC ACID (7664-38-2)	PHOSPHORIC ACID (7664-38-2)		
No additional information available			
SULFURIC ACID (7664-93-9)			
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		
Regulatory reference	ACGIH 2019		
USA - OSHA - Occupational Exposure Limits			
Local name	2-Butoxyethanol		
OSHA PEL (TWA) [1]	240 mg/m ³		
OSHA PEL (TWA) [2]	50 ppm		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
ALCOHOLS, C8-C10, ETHOXYLATED (71060-	-57-6)		
No additional information available			
8.2. Appropriate engineering controls			
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

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Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
Wear respiratory protection.	

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Colourless
Odor	: Lemon odour
Odor threshold	: No data available
pH	: < 1.5
Melting point	: Not applicable
Freezing point	: No data available
	: No data available
Boiling point	: No data available
Flash point	
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
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
	. 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.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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 (dermal)	Not classified Not classified Not classified	
SULFURIC ACID (7664-93-9)		
LD50 oral rat	2140 mg/kg body weight Animal: rat, 95% CL: 1540 - 2990	
LC50 inhalation rat (mg/l)	0.375 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)	
ATE US (oral)	2140 mg/kg body weight	
BUTHOXYETHANOL (111-76-2)	·	
LD50 oral rat	1746 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))	
LC50 inhalation rat (mg/l)	> 4.26 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))	
ATE US (oral)	1414 mg/kg body weight	
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, C8-C10, ETHOXYLATED (71060-	57-6)	
ATE US (oral)	500 mg/kg body weight	
Skin corrosion/irritation :	Causes severe skin burns. pH: < 1.5	
Serious eye damage/irritation :	Causes serious eye damage. pH: < 1.5	
	Not classified	
	Not classified	
Carcinogenicity :	May cause cancer (Dermal, Inhalation, oral).	
SULFURIC ACID (7664-93-9)		
National Toxicity Program (NTP) Status	Known Human Carcinogens	

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BUTHOXYETHANOL (111-76-2)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
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)
Aspiration hazard	Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general :	Before neutralisation, the product may represent a danger to aquatic organisms.	
PHOSPHORIC ACID (7664-38-2)		
LC50 - Fish [1]	138 mg/l (Pisces, Pure substance)	
SULFURIC ACID (7664-93-9)		
EC50 - Daphnia [1]	> 100 mg/l Test organisms (species): Daphnia magna	
NOEC (chronic)	0.15 mg/l Test organisms (species): other:Tanytarsus dissimilis	
NOEC chronic fish	0.31 mg/l Test organisms (species): Salvelinus fontinalis	
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 - Daphnia [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'	

12.2. Persistence and degradability

PHOSPHORIC ACID (7664-38-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

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PHOSPHORIC ACID (7664-38-2)		
BOD (% of ThOD)	(% of ThOD) Not applicable	
BUTHOXYETHANOL (111-76-2)		
Persistence and degradability	Readily biodegradable in water.	
12.3. Bioaccumulative potential		
PHOSPHORIC ACID (7664-38-2)		
Bioaccumulative potential	Does not contain bioaccumulative component(s).	
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).	
12.4. Mobility in soil		
PHOSPHORIC ACID (7664-38-2)		
Ecology - soil No (test)data on mobility of the component(s) available.		
BUTHOXYETHANOL (111-76-2)		
Surface tension	65.03 mN/m (20 °C, 2 g/l)	
Organic Carbon Normalized Adsorption Coefficient	0.451 – 0.882 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	

12.5. Other adverse effects

(Log Koc) Ecology - soil

No additional information available

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

Highly mobile in soil.

SECTION 14: Transport information	
14.1. UN number	
DOT NA No	: UN2796
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: SULFURIC ACID (with not more than 51% acid), 8, II
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT) Hazard labels (DOT)	: 8 : 8

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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)	: UN2796
14.7. Transport in bulk according to An	nnex 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 listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.		
SULFURIC ACID CAS-No. 7664-93-9 5 – 10%		5 – 10%
PHOSPHORIC ACID (7664-38-2)		
CERCLA RQ	5000 lb	

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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)	

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

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Full text of H-ph	rases	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H350	May cause cancer	
NFPA health haza	rd : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.	
NFPA fire hazard NFPA reactivity	 1 - Materials that must be preheated before ignition can occur. 0 - Material that in themselves are normally stable, even under fire conditions. 	
Hazard Rating		
Health Flammability	 2 Moderate Hazard - Temporary or minor injury may occur 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) 	
Physical	 O 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

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.

: B - Safety glasses, Gloves