



MATERIAL SAFETY DATA SHEET

CITRASOLVE (SURFTREAT 13545)

Substance key: 000000476722

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WHMIS controlled: yes
Class: B 3
D 2B

Section 01 - Product and company identification

Identification of the company: Clariant Corporation
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Information of the substance/preparation: ESHA
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Trade name: CITRASOLVE (SURFTREAT 13545)
Material number: 100005048
Primary product use: Degreaser

Section 02 - Hazards identification

Health effects of exposure:

Irritant to skin. Risk of serious damage to eyes. Inhalation may irritate the respiratory tract.

2-Buthoxyethanol: teratology studies have shown that rats exposed at 300 ppm showed effects of maternal and embryo lethality; at 200 ppm showed maternal toxicity, embryo toxicity and fetotoxicity; at 50 ppm showed no observed effect. Systemic effects observed in animals include hemo- lysis, liver and kidney damage and pulmonary hemorrhage. Hydrocarbons, terpene processing by-products: inhalation - vapors are not hazardous, but may be irritating in confined spaces. Eyes - irritating to eyes. Skin - irritating to skin. Ingestion - will be irritating to tissues. May be harmful or fatal is swallowed in sufficient quantity. No known chronic effects. Ethoxylated nonyl phenol: listed on the priority list 2 and considered an endocrine disruptor by environment Canada.

Section 03-Composition/information on ingredients

Hazardous ingredients:

Component	CAS number	Concentration
Hydrocarbons, terpene processing by-products	68956-56-9	30-60 %
Ethylene glycol monobutyl ether	111-76-2	30-60 %
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-	9016-45-9	10-30 %

Component toxicity information:

Ethylene glycol monobutyl ether (111-76-2)
Acute oral toxicity: LD50 1,746 mg/kg (rat)
Source: Supplier
Acute inhalation toxicity: LC50 (4 h, Rat (female))
Source: Supplier
Acute dermal toxicity: LD50 6,411 mg/kg (pig)
Source: Supplier

Section 04 - First aid measures

After inhalation:

Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped or is difficult. Get prompt medical attention. Do not give fluids if victim is unconscious.

After contact with skin:

Remove contaminated clothing and wash affected areas with soap and plenty of water for at least 15 minutes. If redness or skin irritation occurs, seek medical attention.

After contact with eyes:

Immediately wash the eyes with flowing water for at least 15 minutes. Insure proper irrigation by occasionally lifting upper and lower eyelids. Thereafter seek prompt medical attention.

After ingestion:

If ingested, do not induce vomiting. Get immediate medical assistance.

Advice to doctor / Treatment: None known.

Section 05 - Fire fighting measures

Flashpoint: 47 °C

Ignition temperature: not determined

Extinguishing media: Carbon dioxide, water spray, dry chemical, alcohol resistant foam.

Special fire fighting procedure:

Wear self-contained breathing apparatus (SCBA) and full protective clothing.

Collect contaminated firefighting water separately, must not be discharged into the drains. Cool endangered containers with water spray jet.

Unusual fire and explosion hazards: Container explosion may occur under fire conditions.

Hazardous combustion products:

In the event of fire the following can be released: Carbon monoxide (CO)

Carbon dioxide (CO₂)

Section 06 - Accidental release measures**Steps to be taken in case of spill or leak:**

Only trained personnel should be involved in spill operations. Wear suitable protective equipment. Ensure adequate ventilation. Remove all ignition sources. Contain spill and pump into proper containers using explosion-proof equipment. Smaller spills may be recovered using an inert non-combustible absorbent material (sand, kieselguhr) and collected into suitable containers. Do not use organic absorbent material. Containers in which spilled substance has been collected must be properly labelled. Spill may be covered with an appropriate foam to hinder the formation of explosive vapours. Wash spill area. Do not allow to enter sewers, storm drains, surface waters or the soil.

Section 07 - Handling and storage

Advice on safe handling:

Keep away from heat, sparks and open flames. - Avoid breathing vapors or contact with skin, eyes, and clothing.- Use only with adequate ventilation and proper protective eyewear, face shield, gloves and clothing. Wash thoroughly after handling. Keep container closed.

Further info on storage conditions:

Keep container tightly closed in a cool, well-ventilated place, open and handle carefully. Keep away from sources of ignition.

Section 08 - Exposure controls / personal protection**Occupational exposure limits:**

Component	CAS number:	Regulatory list	Type of value	Value 1	Value 2
2-Butoxyethanol EGBE		US. Threshold Limit Values (TLV) for Substances in the Work Environment Adopted	8-hour, time-weighted average	20 ppm	

Respiratory protection: Wear an approved respirator when exposed to vapours or to mists beyond the TLV. Use appropriate filters. Do not exceed filters limitations. TLV = Threshold Limit Value

Hand protection: Fluorinated Rubber Gloves

Eye protection: Wear chemical goggles and full face shield.

Other protective equipment: Wear clothing suitable to avoid skin contact.

Section 09 - Physical and chemical properties

Form: Liquid

Color: Clear, yellow

pH: Not applicable

Density: 0.87 - 0.89 g/cm³

Section 10 - Stability and reactivity

Thermal decomposition: No decomposition if used as prescribed.

Chemical stability: Stable.

Hazardous Polymerization: Will not occur.

Incompatibility with (Conditions to avoid) : Keep away from heat, sparks, and open flame.

Hazardous decomposition products Carbon monoxide and carbon dioxide

Section 11 - Toxicological information

Acute oral toxicity: The product has not been tested. The information is derived from the properties of the individual components., May be harmful by ingestion.

Skin irritation: irritant

The product has not been tested. The information is derived from the properties of the individual components.

Eye irritation: irritant

The product has not been tested. The information is derived from the properties of the individual components.

Section 12 - Ecological information

Product information:

Remarks:

Do not allow to enter soil, waterways or waste water

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component information: 2-

Butoxy ethanol (111-76-2)

Biodegradation: 90.4 % (28 d)
readily degradable Source: Supplier

Fish toxicity: LC50 1,474 mg/l (96 h, Oncorhynchus mykiss)
Source: Supplier

Daphnia toxicity: EC50 1,550 mg/l (48 h, Daphnia magna)
Source: Supplier

Algae toxicity: IC50 911 mg/l (72 h, Pseudokirchneriella subcapitata)
Source: Supplier

Section 13 - Disposal considerations

Waste disposal information:

Recommended disposal is by incineration in approved facilities. This product may be classified as a hazardous waste due to its ignitability. Follow local regulations.

Section 14 - Transport information

TDG not restricted

IATA not restricted

IMDG not restricted

Section 15 - Regulatory information

Registration status

DSL: yes

NDSL: no

All components of the product are listed on the DSL/Canada.

CEPA

Listed as priority substance: no

Listed as toxic substance: no

NPRI yes

Section 16 - Other information

WHMIS



COMBUSTIBLE!

RISK OF SERIOUS DAMAGE TO EYES CAUSES SKIN IRRITATION

HARMFUL IF SWALLOWED

The information contained on this MSDS is to the best of our knowledge an accurate summary of the data available as of the date of preparation. Clariant (Canada) Inc. is not liable for the application or use of this information in situations beyond its control or outside the normal and expected use of its product. Clariant (Canada) Inc. assumes no responsibility for damage or injury from the use of the product described herein.