

# Safety Data Sheet

## STOP UP



Safety Data Sheet dated 27/8/2021, version 4.0

This version cancels and substitutes any previous version

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

1.1. Product identifier

Mixture identification:

Trade name: STOP UP

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

Recommended use:

Universal oil stop leak

1.3. Details of the supplier of the safety data sheet

Company:

ERRECOM SPA

Via Industriale, 14

Corzano (BS) Italy

Tel. +39 030/9719096

Competent person responsible for the safety data sheet:

lab@errecom.it

1.4. Emergency telephone number


+39 02-6610-1029 Poison Control Center Niguarda Ca' Granda - Milano - ITALY


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### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

 Warning, Acute Tox. 4, Harmful if swallowed.

 Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P264 Wash the exposed body parts thoroughly after handling.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

PACK2 The packing must have tactile indications of danger for blind people.

Contains

ethanediol

Special provisions according to Annex XVII of REACH and subsequent amendments:

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None

### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards:

No other hazards



## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 90\%$	ethanediol	Index number: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 REACH No.: 01-21194568 16-28-XXXX	 3.1/4/Oral Acute Tox. 4 H302  3.9/2 STOT RE 2 H373

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

After contact with skin, wash immediately with soap and plenty of water.

Wash contaminated clothing before using them.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Call a doctor immediately. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person and if indicated by the doctor.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

If breathing is difficult, seek medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by substances, see section 11.

### 4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

- Burning produces heavy smoke.
- 5.3. Advice for firefighters  
Use suitable breathing apparatus.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Move undamaged containers from immediate hazard area if it can be done safely.

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**SECTION 6: Accidental release measures**

- 6.1. Personal precautions, protective equipment and emergency procedures  
Wear personal protection equipment.  
Remove persons to safety.  
See protective measures under point 7 and 8.
- 6.2. Environmental precautions  
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up  
Wash with plenty of water.
- 6.4. Reference to other sections  
See also section 8 and 13

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**SECTION 7: Handling and storage**

- 7.1. Precautions for safe handling  
Avoid contact with skin and eyes, inhalation of vapours and mists.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
Advice on general occupational hygiene:  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities  
Keep in a well ventilated place.  
Store away from direct sunlight.  
Keep container tightly closed.  
Keep away from food, drink and feed.  
Incompatible materials:  
See subsection 10.5  
Instructions as regards storage premises:  
Adequately ventilated premises.
- 7.3. Specific end use(s)  
Information not available.

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**SECTION 8: Exposure controls/personal protection**

- 8.1. Control parameters  
ethanediol - CAS: 107-21-1  
EU - TWA(8h): 52 mg/m<sup>3</sup>, 20 ppm - STEL(15min): 104 mg/m<sup>3</sup>, 40 ppm - Notes: Skin  
ACGIH - TWA(8h): 25 ppm - STEL(15min): 50 ppm - Notes: (V), A4 - URT irr  
AGW - TWA(8h): 26 mg/m<sup>3</sup>, 10 ppm - STEL(15min): 52 mg/m<sup>3</sup>, 20 ppm - Notes: Skin  
MAK - TWA(8h): 26 mg/m<sup>3</sup>, 10 ppm - STEL(15min): 52 mg/m<sup>3</sup>, 20 ppm - Notes: Skin  
VLA - TWA(8h): 52 mg/m<sup>3</sup>, 20 ppm - STEL(15min): 104 mg/m<sup>3</sup>, 40 ppm - Notes: Skin

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VLEP - TWA(8h): 52 mg/m<sup>3</sup>, 20 ppm - STEL(15min): 104 mg/m<sup>3</sup>, 40 ppm - Notes:  
Skin

WEL - TWA(8h): 52 mg/m<sup>3</sup>, 20 ppm - STEL(15min): 104 mg/m<sup>3</sup>, 40 ppm

TLV - TWA(8h): 125 mg/m<sup>3</sup>, 50 ppm - STEL(15min): 125 mg/m<sup>3</sup>, 50 ppm

GVI/KGVI - TWA(8h): 52 mg/m<sup>3</sup>, 20 ppm - STEL(15min): 104 mg/m<sup>3</sup>, 40 ppm - Notes:  
Skin

TLV - TWA(8h): 52 mg/m<sup>3</sup>, 20 ppm - STEL(15min): 104 mg/m<sup>3</sup>, 40 ppm - Notes: Skin

NDS - TWA(8h): 15 mg/m<sup>3</sup> - STEL(15min): 20 mg/m<sup>3</sup>

NPHV - TWA(8h): 52 mg/m<sup>3</sup>, 20 ppm - STEL(15min): 104 mg/m<sup>3</sup>, 40 ppm - Notes:  
Skin

ESD - TWA(8h): 52 mg/m<sup>3</sup>, 20 ppm - STEL(15min): 104 mg/m<sup>3</sup>, 40 ppm - Notes: Skin

OEL - TWA(8h): 52 mg/m<sup>3</sup>, 20 ppm - STEL(15min): 104 mg/m<sup>3</sup>, 40 ppm - Notes: Skin

ACGIH - STEL: 10 mg/m<sup>3</sup> - Notes: (I, H), A4 - URT irr

### DNEL Exposure Limit Values

ethanediol - CAS: 107-21-1

Worker Industry: 35 mg/m<sup>3</sup> - Consumer: 7 mg/m<sup>3</sup> - Exposure: Human Inhalation -  
Frequency: Long Term, local effects

Worker Industry: 106 mg/m<sup>3</sup> - Consumer: 53 mg/kg - Exposure: Human Dermal -  
Frequency: Long Term, systemic effects

### PNEC Exposure Limit Values

ethanediol - CAS: 107-21-1

Target: Fresh Water - Value: 10 mg/l

Target: Marine water - Value: 1 mg/l

Target: Freshwater sediments - Value: 37 mg/kg

Target: Marine water sediments - Value: 3.7 mg/kg

Target: Aquatic, periodic release - Value: 10 mg/l

Target: Microorganisms in sewage treatments - Value: 199.5 mg/l

Target: Soil (agricultural) - Value: 1.53 mg/kg

## 8.2. Exposure controls

### Eye protection:

Protective airtight goggles (ref. Standard EN 166).

### Protection for skin:

Overall.

### Protection for hands:

work gloves resistant to penetration (ref. standard EN 374).

Suitable material:

Butyl caoutchouc (butyl rubber).

CR (polychloroprene, chloroprene rubber).

NBR (nitrile rubber).

NR (natural rubber, natural latex).

PE (polyethylene).

PVC (polyvinyl chloride).

Material thickness: minimum 0.12 mm.

Break through time : > 480 min

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).

### Respiratory protection:

In case of exceeding the threshold value of the substance or one or more of the substances present in the product, it is advisable to wear a mask with type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (see standard EN 14387). If there are gases or vapors of a different nature and / or gases or vapors with particles (aerosols, fumes, mists, etc.), combined filters must be provided.

The use of respiratory protective equipment is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. However, the protection offered by the masks is limited.

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Thermal Hazards:

None

Environmental exposure controls:

Emissions from production processes, including those from ventilation should be checked for compliance of environmental protection legislation.

Product residues should not be discharged without control in the sewage system or water courses.

Appropriate engineering controls:

None

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Colourless	--	--
Odour:	characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	>90 ° C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	5	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	-1,36	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.1 g/mL (+20°C / +68°F)	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

#### 9.2. Other information

No other relevant information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.  
Ethylene glycol: may absorb moisture from the atmosphere up to twice its own weight. It decomposes at temperatures above 200 ° C / 392 ° F.

#### 10.2. Chemical stability

Stable under normal conditions

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10.3. Possibility of hazardous reactions

Under normal use and storage conditions are not predictable hazardous reactions.  
Ethylene glycol: risk of explosion on contact with: perchloric acid. It can dangerously react with: chlorosulphuric acid, sodium hydroxide, sulfuric acid, phosphorus pentasulfide, chromium (III) oxide, chromyl chloride, potassium perchlorate, potassium dichromate, sodium peroxide, aluminum. Forms explosive mixtures with air.

10.4. Conditions to avoid

None in particular. However the usual precautions against chemicals.  
Ethylene glycol: avoid exposure to sources of heat and open flames.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Ethylene glycol: glycolaldehyde, glyoxal, acetaldehyde, methane, formaldehyde, carbon monoxide, hydrogen.

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**SECTION 11: Toxicological information**

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

Toxicological information of the product:

a) acute toxicity

The product is classified: Acute Tox. 4 H302

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

The product is classified: STOT RE 2 H373

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Adverse health effects

Acute effects: The product is harmful if swallowed and even small amounts of product may cause serious health problems (stomach pain, nausea, vomiting, diarrhea).  
Ethylene glycol: following ingestion it initially stimulates the central nervous system; later replaced by a phase of depression. You may have kidney damage with anuria and uremia. Symptoms of over exposure are: vomiting, drowsiness, difficulty in breathing, convulsions. The lethal dose for humans is about 1.4 ml / kg. The route of entry is inhalation and ingestion.

Toxicological information of the main substances found in the product:

ethanediol - CAS: 107-21-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 9530 mg/kg

Test: LD50 - Route: Skin - Species: Rat 3500 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 2.5 mg/l - Duration: 6 h

ethanediol - CAS: 107-21-1

LD50 (RABBIT) ORAL: 5017 MG/KG BW

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq$  0.1%

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## **SECTION 12: Ecological information**

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Not classified for environmental hazards

Based on available data, the classification criteria are not met

ethanediol

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 72860 mg/l - Duration h: 96 - Notes: Species:

Pimephales promelas

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: Species:

Daphnia magna

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 15830 mg/l - Duration h: 168 - Notes: Species:

Pimephales promelas

Endpoint: NOEC - Species: Daphnia 8590 mg/l - Duration h: 168 - Notes: Species:

Daphnia magna

12.2. Persistence and degradability

ethanediol - CAS: 107-21-1

Biodegradability: Readily biodegradable - Test: Solubility in water - Notes: 1000 -  
10000 mg/L

12.3. Bioaccumulative potential

ethanediol - CAS: 107-21-1

Bioaccumulation: Very low bioaccumulative - Test: Kow - Partition coefficient 1.360000-

12.4. Mobility in soil

ethanediol - CAS: 107-21-1

Mobility in soil: Mobile - Notes: Source: bibliography

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq$  0.1%

12.7. Other adverse effects

None

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## **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## **SECTION 14: Transport information**

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- 14.1. UN number or ID number  
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name  
N.A.
- 14.3. Transport hazard class(es)  
N.A.
- 14.4. Packing group  
N.A.
- 14.5. Environmental hazards  
ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No
- 14.6. Special precautions for user  
N.A.
- 14.7. Maritime transport in bulk according to IMO instruments  
N.A.

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## **SECTION 15: Regulatory information**

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 2020/878  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:  
Restrictions related to the product:  
Restriction 3  
Restrictions related to the substances contained:  
No restriction.
- Where applicable, refer to the following regulatory provisions :  
Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):



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Seveso III category according to Annex 1, part 1  
None

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Acute Tox. 4, H302	Calculation method
STOT RE 2, H373	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.

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ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.