

Ferrox Liquid

Revision date: 03.05.2019

Page 1 of 10

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Ferrox Liquid

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

Abrasive

1.3. Details of the supplier of the safety data sheet

Company name:	Polytop GmbH	
Street:	Schafweide 2	
Place:	D-63762 Großostheim	
Telephone:	+49 (0) 6026 99577-0	Telefax: +49 (0) 6026 99577-56
e-mail:	info@polytop.de	
Internet:	www.polytop.de www.polytop-shop.de	
Responsible Department:	Tel. +49 (0) 6026 99577-0 mo-th 08:00 - 16:30 o'clock, fr 08:00 - 14:30 o'clock (research and development)	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements**Regulation (EC) No. 1272/2008****Special labelling of certain mixtures**

EUH210 Safety data sheet available on request.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**see below Labelling for contents according to regulation (EC) No. 648/2004, Dye, Additional information:
Abrasive

Ferrox Liquid

Revision date: 03.05.2019

Page 2 of 10

Hazardous components

CAS No	Chemical name	Index No	REACH No	Quantity
	EC No			
	GHS Classification			
64742-48-9	hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics (<0,1% benzene)			20 - < 25 %
	918-481-9		01-2119457273-39	
	Asp. Tox. 1; H304 EUH066			
2272-11-9	Monoethanolammonium oleate			5 - < 10 %
	218-878-0			
	Eye Irrit. 2; H319			
	Fragrances			<0,5 %
122-99-6	2-phenoxyethanol			< 1 %
	204-589-7	603-098-00-9	01-2119488943-21	
	Acute Tox. 4, Eye Irrit. 2; H302 H319			
5392-40-5	Fragrance citral			0,01-<0,1 %
	226-394-6	605-019-00-3	01-2119462829-23	
	Skin Irrit. 2, Skin Sens. 1; H315 H317			
2372-82-9	N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine			< 0.1 %
	219-145-8		01-2119980592-29	
	Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, STOT RE 2, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 1); H301 H314 H318 H373 H400 H410			
4299-07-4	2-n-butyl-benzo[d]isothiazol-3-one			< 0.1 %
	420-590-7	606-079-00-3	01-0000016721-74	
	Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H314 H318 H317 H400 H410			

Full text of H and EUH statements: see section 16.

Labelling for contents according to Regulation (EC) No 648/2004

15 % - < 30 % aliphatic hydrocarbons, 5 % - < 15 % anionic surfactants, perfumes (Citral), preservation agents (PHENOXETOL, LAURYLAMINE DIPROPYLENEDIAMINE, BUTYLBENZISOTHIAZOLINONE).

Further Information

viscosity, kinematic: >20,5mm²/s (40°C)

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.
Wash hands before breaks and after work.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Do NOT induce vomiting. Seek medical advice.
Have victim drink large quantities of water, with active charcoal if possible.

Ferrox Liquid

Revision date: 03.05.2019

Page 3 of 10

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

No known symptoms to date.

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

Give activated carbon, in order to reduce the resorption in the gastro-enteric tract.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.
The product itself does not burn.

5.2. Special hazards arising from the substance or mixture

The vapours are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.

5.3. Advice for firefighters

No special fire protection measures are necessary.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

High slip hazard because of leaking or spilled product.
Provide adequate ventilation.

6.2. Environmental precautions

Product may not be released into water without pre-treatment.
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically.
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

SECTION 12: Ecological information

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Ventilate affected area.

Advice on protection against fire and explosion

No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

No special measures are necessary.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

Protect against: frost.
storage temperature:
of °C: 0 up to °C: 30

7.3. Specific end use(s)

Abrasive

SECTION 8: Exposure controls/personal protection

Ferrox Liquid

Revision date: 03.05.2019

Page 4 of 10

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1344-28-1	Aluminium oxides, respirable dust	-	4		TWA (8 h)	WEL

8.2. Exposure controls

Protective and hygiene measures

Do not breathe gas/vapour.

Avoid contact with eyes.

Work in well-ventilated zones or use proper respiratory protection.

Wash hands before breaks and after work. After cleaning apply high-fat content skin care cream.

Eye/face protection

Eye protection: not required.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Tested protective gloves are to be worn:

PVC (polyvinyl chloride) (Thickness of the glove material: 0,5mm)

NBR (Nitrile rubber). (Thickness of the glove material: 0,5mm)

PVA (Polyvinyl alcohol). (Thickness of the glove material: 0,5mm)

Viton (Thickness of the glove material: 0,5mm)

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.

Unsuitable material: CR (polychloroprenes, Chloroprene rubber). Butyl rubber. NR (Natural rubber (Caoutchouc), Natural latex).

Skin protection

Body protection: not required.

Respiratory protection

Respiratory protection not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	viscous
Colour:	light violet
Odour:	fruity

pH-Value (at 20 °C):	8,0-9,0
----------------------	---------

Test method

Changes in the physical state

Melting point:	not determined
----------------	----------------

Initial boiling point and boiling range:	100-210* °C
------------------------------------------	-------------

Flash point:	>65 °C
--------------	--------

Flammability

Solid:	not applicable
--------	----------------

Gas:	not determined
------	----------------

Ferrox Liquid

Revision date: 03.05.2019

Page 5 of 10

Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits: 0,6 vol. %

Upper explosion limits: 8,0 vol. %

Ignition temperature: not determined

Auto-ignition temperature

Solid: not applicable

Gas: not determined

Decomposition temperature: not determined

Oxidizing properties

not oxidizing.

Vapour pressure:
(at 20 °C) approx. 24 hPaDensity (at 20 °C): 1,06 g/cm³

Water solubility: partially miscible (emulsifiable)

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic:
(at 40 °C) >20,5 mm²/s

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: 25%

9.2. Other information

* aliphatic hydrocarbons boiling temperature / boiling range 180-220°C

SECTION 10: Stability and reactivity

10.1. Reactivity

No risks worthy of mention.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No risks worthy of mention.

10.4. Conditions to avoid

No risks worthy of mention.

10.5. Incompatible materials

none

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects**Acute toxicity**

Ferrox Liquid

Revision date: 03.05.2019

Page 6 of 10

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-48-9	hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics (<0,1% benzene)				
	oral	LD50 >5000 mg/kg	rat		
	dermal	LD50 >5000 mg/kg	rbt		
	inhalation vapour	LC50 mg/l	Vapour pressure: to low	4h max.5mg/l	
122-99-6	2-phenoxyethanol				
	oral	LD50 1850 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
2372-82-9	N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine				
	oral	ATE 100 mg/kg			

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

Based on available data, the classification criteria are not met.
Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

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

Practical experience

Other observations

Has de-greasing effect on the skin.

Further information

Apply skin care products after work.

SECTION 12: Ecological information

12.1. Toxicity

Ferrox Liquid

Revision date: 03.05.2019

Page 7 of 10

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64742-48-9	hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics (<0,1% benzene)					
	Acute fish toxicity	LC50 >1000 mg/l	96 h	Oncorhynchus mykiss		
	Acute algae toxicity	ErC50 >1000 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna		
122-99-6	2-phenoxyethanol					
	Acute fish toxicity	LC50 220 - 460 mg/l	96 h	Leuciscus idus		
	Acute algae toxicity	ErC50 > 500 mg/l	72 h	Scenedesmus sp.		
	Acute crustacea toxicity	EC50 > 500 mg/l	48 h	Daphnia magna		

12.2. Persistence and degradability

Abiotic degradation in Air. (Indication applies to the solvent.)

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64742-48-9	hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics (<0,1% benzene)			
		80%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
122-99-6	2-phenoxyethanol	1,16

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No risks worthy of mention.

Further information

Doesn't get into the sewage water as long as the process is carried out according to regulations.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

120121 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent grinding bodies and grinding materials other than those mentioned in 12 01 20

Ferrox Liquid

Revision date: 03.05.2019

Page 8 of 10

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Water with tenside additive.

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No special measures are necessary.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3: 2-phenoxyethanol

2004/42/EC (VOC): 62%

Additional information

Regulation (EC) No. 648/2004 (Detergents regulation):

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable
not applicable

Ferrox Liquid

Revision date: 03.05.2019

Page 9 of 10

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, < 2% aromatics (<0,1% benzene)

Monoethanolammonium oleate

2-phenoxyethanol

Fragrance citral

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

2-n-butyl-benzo[d]isothiazol-3-one

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,3,9,11,14,15.

Abbreviations and acronyms

2003/15/EG: contains a list of allergenic fragrance substances

648/2004 (EG): Detergents Regulation

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

TLV: Threshold Limiting Value (is a level to which it is believed a worker can be exposed day after day for a working lifetime without adverse effects)

ATEmix: Acute Toxicity Estimates of a mixture

CAS: Chemical Abstracts Service (subdivision of the American Chemical Society)

CAS no: a unique numerical identifier assigned by Chemical Abstracts Service to every chemical substance (rarely a group of substances), described in the open scientific literature

CLP, 1272/2008 (EC): Regulation of the European Parliament on Classification, Labelling and Packaging of Substances and Mixtures

COD: chemical oxygen demand

DNEL: Derived No Effect Level

EC50: half maximal effective concentration (toxicity value), effect on 50% of the test population

EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EN: European Standards

ErC50: median inhibitory concentration of growth rate (algal inhibition test), effect on 50% of the test population

EUH-phrase (-Code): precautionary statement (EC-specified, not derived from GHS)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals (of the United Nations)

hPa: Hectopascal (1000 hPa= 1bar)

H-phrase (-Code): hazardous statement

IATA: International Air Transport Association

IBC-Code: The IBC Code provides an international standard for the safe carriage in bulk by sea of dangerous chemicals

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

IUCLID: International Uniform Chemical Information Database

LC50: median lethal (killing) concentration (toxicity value), effect on 50% of the test population

LD50: median lethal (killing) dose, effect on 50% of the test population

log Kow: partition-coefficient between octanol and water (measures how hydrophilic or hydrophobic a chemical substance is)

MARPOL: Maritime Pollution Convention

Ferrox Liquid

Revision date: 03.05.2019

Page 10 of 10

OECD: Organisation for Economic Co-operation and Development
OECD 301 (A-F: methods for determination of biodegradability)
PBT: persistent, bioaccumulative and toxic (substances that have high resistance to degradation from abiotic and biotic factors, high mobility in the environment and high toxicity)
PNEC: Predicted No Effect Concentration
ppm: parts per million, 10000ppm=1%
P-phrase (-Code): precautionary statement
REACH, 1907/2006 (EC): Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulation concerning the Carriage of Dangerous Goods by Rail (
STOT RE: Specific Target Organ Toxicity (repeated exposure)
STOT SE: Specific Target Organ Toxicity (single exposure)
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent and very bioaccumulative (s.PBT)

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH210	Safety data sheet available on request.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)