

SAFETY DATA SHEET

According to Commission Regulation (EU) 2015/830 of 28 May 2015

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

PRODUCT NAME: SURFACE AGENT LF-25 DEGREASER

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

Relevant identified uses: Degreaser

Uses advised against: not specified

1.3 Details of the supplier of the safety data sheet

Supplier:

FX International Sp. z o.o.

Address:

ul. Mikołowska 65, 44-203 Rybnik

tel.:

+48 577 899 066

e-mail address of competent person responsible for the SDS:

biuro@fxprotect.pl

1.4 Emergency telephone number

112 (24-hour)

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification based on the calculation.

Flam. Liq. 2	H225
Eye Irrit. 2	H319
STOT SE 3	H336

2.2 Label elements



GHS02



GHS07

Signal word:

DANGER

Identifier:

Contains: propan-2-ol

Hazard statement(s)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Supplemental information on the label

NOT APPLICABLE

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice.
P261	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.
P404	Store in a closed container.

Supplemental Hazard information (EU):

No specific information.

Contents in accordance with 648/2004/EC Directive:

<5%: anionic surfactants

2.3 Other hazards

No information on meeting the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Section 3. Composition/information on ingredients

3.1 Substances

NOT APPLICABLE

3.2 Mixtures

propan-2-ol	
REACH No	01-2119457558-25
Index No	603-117-00-0
EC No	200-661-7
CAS No	67-63-0
Concentration %	50-90
Classification according to 1272/2008/EC	Flam. Liq. 2 H225 GHS02 Dgr Eye Irrit. 2 H319 GHS07 Wng STOT SE 3 H336 GHS07 Wng

Substance with a national exposure limits in the work environment

SAFETY DATA SHEET

According to Commission Regulation (EU) 2015/830 of 28 May 2015

Components not classified:

Name:	CAS No:	EC No:	Content [%]
alcohols, c12-14, ethoxylated propoxylated	68439-51-0	614-484-1	1-5

For full text of H-statements: see SECTION 16.

Section 4. First aid measures

4.1 Description of first aid measures

General notes

Do not distribute anything orally to an unconscious person. In case of any symptoms occur, call the doctor immediately or take the victim to hospital; show the packaging label or MSDS. If not breathing give artificial respiration immediately.

Inhalation

Remove to fresh air. Keep the affected person warm and calm. If symptoms persist, call a physician. In case of difficulty in breathing, administer oxygen.

Skin contact

Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If symptoms persist, call a physician.

Eye contact

Rinse eyes with plenty of water (if possible with eye wash) for several minutes (with eyelid opened), avoid strong water jet due to risk of corneal damage.

Remove contact lenses during washing. Immediate consult ophthalmologist.

Note: People exposed to eye contamination should be advised on the necessity and methods of flushing.

Ingestion

Do not induce vomiting unless otherwise advised by medical staff. If the victim is lying on his back, face him down. Immediately consult a doctor, if possible, show the label or MSDS.

Protection of first-aiders:

Do not take any action that would harm anyone unless you are properly trained. Always use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact Redness, tearing and pain.

Inhalation May cause nose, throat and respiratory system irritation. Symptoms may include dizziness, headaches, nausea and chest tightness.

Skin contact Frequent contact may cause dryness and cracking of the skin.

Ingestion Causes irritation of the intestines and stomach. Symptoms may include nausea, vomiting and abdominal pain.

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

Seek medical advice in case of accident or malaise. Do not induce vomiting or give anything by mouth to an unconscious person. Show the safety data sheet or label / package to the medical staff providing the assistance. Helpers under an unknown concentration of vapors / mist should be provided with adequate respiratory protection.

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media CO₂, powder, foam resistant to alcohol, water spray or water mist.

Unsuitable extinguishing media water jets

5.2 Special hazards arising from the substance or mixture

Produces suffocating and toxic fumes on combustion containing carbon oxides, nitrogen oxides. Inhalation of combustion products leads to serious health risks.

5.3 Advice for firefighters

Follow the procedures for extinguishing fires of chemicals. In case of fire involving large quantities of product, all persons should be removed / evacuated from the danger area.

Closed containers exposed to fire or high temperature to be cooled down with water spray from a safe distance, if possible, and safely remove them from the hazard area. Do not allow fire extinguishing sewerage to enter sewage system and water bodies.

Dispose of effluent and fire residue in accordance with local regulations.

Persons involved in firefighting should be trained, equipped with self-contained breathing apparatus and full protective clothing.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes, skin and clothing. Provide ventilation. Avoid breathing vapors or mists. Remove all sources of ignition. Avoid accumulation of vapors that may lead to the formation of explosive concentrations. Vapors are heavier than air and may accumulate in low areas.

Personal protective equipment is listed in Section 8.

6.2 Environmental precautions

Do not let the product enter drains, water and soil.

6.3 Methods and material for containment and cleaning up

Place the damaged packaging in the replacement packaging. Small spills put in a closed, labeled container for disposal. Dispose of in accordance with local regulations. If necessary, to remove product or contaminated product absorbent material, enlist the help of specialized companies engaged in transportation and elimination of waste.

6.4 Reference to other sections

Refer to Section 8 for appropriate personal protective equipment. For disposal information, see section 13. Refer to Section 7 for precautionary measures.

SAFETY DATA SHEET

According to Commission Regulation (EU) 2015/830 of 28 May 2015

Section 7. Handling and storage

7.1 Precautions for safe handling

Do not inhale vapors/mists. Avoid contact with skin and eyes.

The material can accumulate static charges which can cause electric spark (ignition source). Electric spark can ignite accumulated vapors. Take precautionary measures against static discharges. Prevent the formation of vapor in the air. Electrical equipment should be protected in accordance with the standards. Use only in well-ventilated areas. Keep away from heat and sources of ignition. No smoking. Vapors may form explosive mixtures with air.

NOTE: Use personal protective equipment in accordance with the information in section 8 of the safety data sheet.

7.2 Conditions for safe storage, including any incompatibilities

- Pay attention to warnings on the label.
- Store only in certified, original, properly labeled, sealed packaging.
- Prohibit access to unauthorized persons.
- Open containers close carefully and hold upright.
- Store on a hard surface.
- Store in a dry, cool, well-ventilated area.
- Keep away from strong oxidants, strong alkalis, and strong acids.
- Do not release to drains, surface or ground water (this also includes empty containers).
- Recommended storage temp. 5-25 °C.
- Keep away from direct sunlight.
- Keep away from heat, open flames, sparks and other sources of ignition. Do not use tools that generate sparks.
- Do not smoke, do not use matches or lighters.

7.3 Specific end use(s)

Application method according to information provided by the manufacturer or distributor.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Legal basis:

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (Text with EEA relevance)

CAS	Factor	Limit values			
		TWA		STEL	
		mg/m ³	ppm	mg/m ³	ppm
67-63-0	propan-2-ol United Kingdom	999	400	1250	500

DNEL

No specific information

PNEC

No specific information

8.2 Exposure controls

Observe general safety and hygiene rules. Do not eat, drink or smoke during product handling. Wash hands before meals and after work. Wash contaminated clothing before reuse. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and aerosols. Provide effective local ventilation in workstations, and general ventilation.

Respiratory protection:

No special requirements under normal use conditions.

Skin protection:

No special requirements under normal use conditions.

Hand protection:

Protective gloves .

Eye and face protection:

In case of prolonged exposure or splashes of liquid hazard, wear safety sealed goggles according to EN 166. It is recommended to equip the workplace in a water shower for rinsing eyes.

Thermal hazards:

Flame or intense heat may cause violent rupture.

Environmental exposure controls:

Should not be released into the environment. If the product contaminates rivers and lakes or drains inform respective authorities.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Parameter	Value
Appearance (20°C)	Transparent liquid
Odour	Characteristic
Odour threshold	Not determined
pH	Not determined
Melting point/freezing point (°C)	-89,5
Initial boiling point and boiling range (°C)	82

SAFETY DATA SHEET

According to Commission Regulation (EU) 2015/830 of 28 May 2015

Flash point (°C)	12
Evaporation rate	Not determined
Flammability (solids, gases)	Not applicable – liquid
Flammability or explosive limits [% v/v]: upper	12,0
lower	2,0
Vapour pressure (20°C, hPa)	43
(30°C, hPa)	76
Vapour density (air = 1)	2,07
Density (20°C, g/cm ³)	0,8
Solubility	Soluble in water and most organic solvents, less in hexane, benzene, chloroform
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	400
Decomposition temperature (°C)	Not determined
	Not determined
Viscosity kinematic (mm ² /s, 40°C) dynamic (mPa·s, 25°C)	Not determined
Explosive properties	May create an explosive atmosphere
Oxidising properties	Not applicable

9.2 Other information

VOC: 80%

Section 10. Stability and Reactivity

10.1 Reactivity

Reacts with water or moisture in the air releasing methanol.

10.2 Chemical stability

Stable under normal ambient conditions, as well as under expected temperature and pressure during storage and handling.

10.3 Possibility of hazardous reactions

Vapors may form explosive mixtures with air.

10.4 Conditions to avoid

Sources of heat, open flame and sparks, direct sunlight, temperatures above 50 ° C.

10.5 Incompatible materials

Strong oxidants, peroxides, acidse.

10.6 Hazardous decomposition products

Thick black smoke containing carbon dioxide (CO₂), carbon monoxide (CO).

Section 11. Toxicological information

This product has been evaluated following the conventional method specified by the EU Directive and is appropriately classified in terms of toxicity. Details are given in Sections 2 and 3.

11.1 Information on toxicological effects

Acute toxicity

ATE Oral: LD50 >5 g/kg, rat

Acute toxicity (other routes): No specific information

Skin corrosion/irritation

propan-2-ol mild irritation, rabbit – 500 mg

Serious eye damage/irritation

propan-2-ol moderate irritation, rabbit - 24h, 100 mg

moderate irritation, rabbit - 10 mg

strong irritation, rabbit – 100 mg

Respiratory or skin sensitisation

No specific information

Germ cell mutagenicity

No specific information

Carcinogenicity

No specific information

Reproductive toxicity

No specific information

STOT-single exposure

No specific information

STOT-repeated exposure

No specific information

Aspiration hazard

No

Section 12. Ecological information

For more information on possible environmental effects, see Section 2.1. (classification). No data for the final product, the evaluation was made based on the individual components.

12.1 Toxicity

Do not allow to enter surface waters, watercourses or sewage system.

Fish

propan-2-ol LC50 4,2 g/l Rasbora heteromorpha 96h

SAFETY DATA SHEET

According to Commission Regulation (EU) 2015/830 of 28 May 2015

Daphnia and other aquatic invertebrates
propan-2-ol LC50 1,4 g/l Crangon crangon 48h

12.2 Persistence and degradability

It is expected to be readily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No information on meeting the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6 Other adverse effects

Additional ecological information: The product should not enter the water or sewerage system or the soil.

Section 13. Disposal considerations

13.1 Waste treatment methods

Dispose in accordance with all applicable regulations. Dispose of the product and its container in a safe manner. Prevent spillage of product into soil and sewage water.

Section 14. Transport Information

The product is subject to regulations on the transport of dangerous goods included in ADR (road), RID (rail), ADN (inland transport), IMDG (sea), ICAO / IATA (air).

Quantities excluded:

The maximum net amount for inner packaging: 30ml

The maximum net quantity for outer packaging: 500ml

	ADR
14.1 UN number	1219
14.2 UN proper shipping name	ISOPROPANOL
14.3 Transport hazard class(es)	3, F1 
14.4 Packing group	II
14.5 Environmental hazards	Not hazardous to the environment according to the transport regulations.
14.6 Special precautions for user	When handling a load wear personal protective equipment according to section 8. Quantity limited: 1l Tunnel restriction code: D / E Hazard identification number: 33 Proceedings: S2 S20 Special provision: 601
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Does not apply in the form in which it was delivered.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- 1) Regulation (EC) No. 1907/2006 (Annex II Guidelines for the preparation of Safety Data Sheets)
- 2) Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 132/8 29.5.2015, CELEX 32015R0830)
- 3) Commission Regulation (EU) No. 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 133 31.5.2010, CELEX 32010R0453)
- 4) Regulation (EC) No. 1272/ 2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ L 353 31.12.2008, CELEX 32008R1272)
- 5) Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (OJ L 396 30.12.2006, CELEX 32006R1907)
- 6) Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing some Directives (OJ L 312 22.11.2008, CELEX 32008L0098).
- 7) Regulation (EC) No. 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer (OJ L 286 31 October 2009, CELEX 32009R1005).
- 8) Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods (Text with EEA relevance) (OJ L 260 30.9.2008, CELEX 32008L0068)

SAFETY DATA SHEET

According to Commission Regulation (EU) 2015/830 of 28 May 2015

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances

Category	Threshold value for lower-tier establishment [t]	Threshold value for upper-tier establishment [t]
P5c FLAMMABLE LIQUIDS	5000	50000

15.2 Chemical Safety Assessment

No chemical safety assessment has been made for the product.

Section 16. Other information

The data contained herein refer to the product in commercial form.

Relevant H-statements (number and full text)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Hazard classes and categories

Flam. Liq. 2 Flammable liquids

Category 2

Eye Irrit. 2 Eye damage / irritation

Category 2

STOT SE 3 Specific target organ toxicity (single exposure)

Category 3

Abbreviations and acronyms

ACGIH Association Advancing Occupational and Environmental Health

ADN L' Accord européen relatif au transport international des marchandises Dangereuses par voies de navigation intérieures –The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR Accord Dangereux Routier - European regulations concerning the international transport of dangerous goods by road

ASTM American Society for Testing and Materials

ATE Acute Toxicity Estimate

BCF Bioconcentration factor

BGW Biologischer Grenzwert (biological limit value, Germany)

CAS Chemical Abstract Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

CMR Carcinogenic, Mutagenic or Toxic to Reproduction

CSA Chemical safety assessment

CSR Chemical safety report

DIN Deutsches Institut für Normung - German Institute for Standardisation

DNEL Derived No-effect Level

EC European Community

EC50 Median Effective Concentration (required to induce a 50% effect)

ES Exposure Scenario

EWC European Waste Catalogue

GHS Global Harmonized System

IATA International Air Transport Association

IC50 Median Inhibition Concentration (concentration that reduces the effect by 50%)

IMDG International Maritime Dangerous Goods Code

ISO International Organization for Standardization

LC50 Lethal Concentration, 50%

LD50 Lethal Dose, 50%

LDLo Lethal Dose Low

LogPow octanol/water partition coefficient

VOC Volatile organic compound

MARPOL 73/78 The International Convention for the Prevention of Pollution from Ships

NIOSH The U.S. National Institute for Occupational Safety and Health

NOEC No Observed Effect Concentration

OECD Organization for Economic Co-operation and Development

OSHA Occupational Safety & Health Administration

PBT Persistent Bioaccumulative Toxic (chemical)

PEL Permissible Exposure Limits

PNEC Predicted No Effect Concentration

REACH Regulation 1907/2006/EC for Registration, Evaluation, Authorization and Restriction of Chemical

RID Regulations Concerning the International Transport of Dangerous Goods by Rail

RRN REACH registration number

STEL Short Term Exposure Limit

STOT RE Specific target organ toxicity – repeated exposure

STOT SE Specific target organ toxicity – single exposure

SVHC Substances of very high concern

TWA Time Weighted Average

vPvB very Persistent very Bioaccumulative (chemical)

The information in this SDS is based on the present state of our knowledge and current law basis. The product is not to be used for purposes other than those specified under Section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

The SDS has been developed by **Pro-Perfekt, biuro@properfekt-msds.pl**

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