

Safety Data Sheet

According to Regulations EC no.1907/2006 and
EU no.453/2010

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Asphalt Stain Remover Polar

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

Identified Uses: Cleaning/washing agents

1.3 Details of the supplier of the safety data sheet

Telko Estonia OÜ
Mõisa 4
13522 Tallinn
Estonia

1.4 Emergency telephone number : 112

Product Information

Technical Information: +372 6548840

FAX number: +372 6548834

www.telko.com

SECTION 2 HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

DSD/DPD CLASSIFICATION(in accordance with 1999/45/EC): This mixture classified as harmful and highly flammable.

CLP CLASSIFICATION (in accordance with 1272/2008)

C.f. section 16.

2.2 Label elements

Under the criteria of Directive 1999/45/EC (dangerous preparations):-

Symbols:



Harmful



Highly flammable

R-PHRASES

R-11 Highly flammable.

R-65 Harmful: may cause lung damage if swallowed.

S-PHRASES

S- 2 Keep out of the reach of children.

S-16 Keep away from sources of ignition - No smoking.

S-23 Do not breathe gas/fumes/vapour/spray

S-24 Avoid contact with skin.

S-62 If swallowed, do not induce vomiting - seek medical advice and show this container or label.

Under criteria **1272/2008 C.,f section 16**

2.3. Other hazards

Not relevant.

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Mixtures

This product is composed of a homogeneous mixture of liquids.

COMPONENTS	CAS/ EC/ INDEX NUMBER	REGISTRATION NUMBER	DSD/DPD CLASSIFICATION:	CLP CLASSIFICATION	AMOUNT
Distillates (petroleum), hydrotreated, light	64742-47-8 265-149-8 649-422-00-2	01-2119456620-43	Xn; R65, R66	Asp Tox 1; H304	60-100%
Alcohol ethoxylate (polymer)	-	-	Xi; R38 R41	Skin Irrit 2, Eye Dam 1; H315, H318	5 - 15%
2-butoxyethanol	111-76-2 203-905-0 603-014-00-0	01-2119475108-36	Xn; R20/21/22 R36/38	Acute Tox 4 <i>dermal</i> , Acute Tox 4 <i>oral</i> , Acute Tox 4 <i>vapour</i> , Skin Irrit 2, Eye Irrit 2; H312, H302, H332, H315, H319	5-10%
Ethanol	64-17-5 200-578-6 603-002300-5	01-2119457610-43	Xi,R36/38	Flam. Liq. 2; H225 Eye Irrit. 2; H319	5-10%
Isopropanol	67-63-0 200-661-7 603-117-00-0	01-2119457558-25	F,R11, R36, R67	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	5-10 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complement used in the calculation of the hazards of this mixture, c.f. Section 16b

Labelling for contents according to regulation (EC) 648/2004
30% and more aliphatic hydrocarbons, 5%-15% nonionic surfactants

The full text of all R-phrases and CLP H- statements is shown in Section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

General

Allow the injured person to rest in a warm place which has fresh air. Flush the nose, mouth and throat with water. Seek medical attention.

Put the person in the three-quarters prone recovery position if he or she is unconscious or groggy. Never leave a injured person alone. Their condition may rapidly worsen, sometimes several hours after the poisoning.

Inhalation

Let the injured person rest in a warm place with fresh air or oxygen tank, and arrange to have them transported immediately to a hospital.

Skin contact

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician. Remove contaminated clothes.

Eye contact

Immediately rinse with lukewarm water 15 - 20 minutes with eyes wide open; Transport the injured person to the hospital immediately. Remove solid particles.

Ingestion

First rinse the mouth thoroughly with a lot of water and SPIT OUT the water. Then drink at least 1/2 liter of water and call a doctor/physician. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Not relevant

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Dry Chemical, CO₂, AFFF Foam or alcohol resistant foam, water spray.

5.2 Special hazards arising from the substance or mixture

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

Note that the extinguishing water may contain toxic substances or other hazardous substances.

5.3 Advice for firefighters

Protective measures should be taken regarding other material at the site of the fire. In case of fire use a respirator mask.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Chemical protection suits should be worn for all salvage and decontamination work.

Gas mask with an A type filter (brown), or a dust filter IIb (P2), may be required when decontaminating spillage.

Do not allow the product to flow into the sewer; if this should occur however, contact your local sewer service immediately.

In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).

Avoid inhalation and exposure to skin and eyes.

6.2 Environmental precautions

Avoid discharge into soil, water or air.

Avoid discharge into sewers.

Dam up the spillage to prevent it reaching street sewers or flowing into the ground.

Always contact the fire department when accidental spillage of this product occurs. Show this safety data sheet.

6.3 Methods and material for containment and cleaning up

Clean-up of repeated spillages, or larger spillages of this product, should be executed by professional decontamination workers.

Absorb the liquid with an inert adsorbent, Vermiculite, for example. Collect the material for disposal at a waste disposal facility.

Wash off with large quantities of water (50-100 volume parts). Dry up afterwards.

Residues left behind after cleaning shall be treated as hazardous waste. For further information, contact the local authority sanitisation works. Present this safety data sheet.

6.4 Reference to other sections

Suitable protective equipment referred in Section 8, requirements to disposal considerations referred in Section 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not inhale the fumes and avoid exposure to skin, eyes and clothing.

When working with dangerous substances a fume cupboard ought to be used, or else utilise a space which is well ventilated.

The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.

Store this product separately from food items and keep it out of the reach of children and pets.

Do not eat, drink or smoke in premises where this product is stored.

Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.

Store in a locked location.

7.2 Conditions for safe storage, including any incompatibilities

Do not store above normal room temperature.

Handle in a premises which is well ventilated.

Store in a well-ventilated area, not above eye-level.

An evacuation plan should be available and evacuation routes must not be blocked.

Emergency showers and eye-rinsing facilities must be available at the workplace.

Store only in the original package.

7.3 Specific end use(s):

Not relevant.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1. National limit values,

2-BUTOXYETHANOL (United Kingdom)

Time-weighted-average exposure limit (TWA) 25 ppm / 123 mg/m³

Short term exposure limit (STEL) 50 ppm / 246 mg/m³

Distillates (petroleum), hydrotreated, light

Time-weighted-average exposure limit (TWA) 165 ppm / 1200 mg/m³

Other ingredients (cf. Section 3) have no occupational exposure limit values or are not relevant in this mixture.

8.2 Exposure controls

In terms of minimizing risks, attention must be paid to the health hazards (c.f. Sections 2, 3 and 10) of this product or any of its

ingredients according to EU directives 89/391 and 98/24 and national occupational legislation.

Use protective glasses, safety goggles, or a visor.

Gloves labelled "Low Chemical resistant" or "Waterproof" or with the pictogram indicated here are recommended.



Choose a mechanical wear strength in line with the nature of the work in accordance to this pictogram with four digits that indicate resistance against abrasion, cutting effects, tear and puncture, where 1 is the lowest and 4 or 5 is the best.

Protect all exposed skin from coming into contact with the product.

A breathing mask of the A filter (brown) type, or a IIb (P2) dust filter may be required.

For limitation of environmental exposure, see Section 12..

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

9.1 Information on basic physical and chemical properties

Appearance

Color: colourless

Physical State: Liquid

Odor: specific

Odor Threshold: Not applicable

pH: 7-8

Freezing Point: > 15 °C

Initial Boiling Point: Not applicable

Flashpoint: <60°C

Flammability (solid, gas): Not applicable

Flammability (Explosive) Limits (% by volume in air):

Lower: Not Applicable Upper: Not Applicable

Vapor Pressure: Not applicable

Vapor Density (Air = 1): Not applicable

Density: ca 0,8 kg/l @ 20°C

Solubility: Soluble in water.

Partition coefficient: n-octanol/water: Not applicable

Auto-ignition temperature: Not applicable

Decomposition temperature: Not applicable

Explosive Properties: Not applicable

Oxidising properties: Not applicable

9.2 Other Information: Not applicable

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity: This material is not expected to react.

10.2 Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions: Stable in normal working and storing conditions.

10.4 Conditions to Avoid: Keep away from ignition sources.

10.5 Incompatible materials to avoid: None known

10.6 Hazardous decomposition products: Not indicated

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

General or unspecific toxicity

Note that the product is hazardous to health. No toxicological information is available for the whole products only for the ingredients.

Acute effects

Not classified as an acutely toxic substance.

Harmfulness

The product is a health hazard.

Repeated dose toxicity

Prolonged exposure to the substance is dangerous.

Sensibilisation

Eczema (atopical or unidentified) may occur.

Corrosive and irritating effects

Not indicated

Synergism and antagonism

Enhances the risk of allergy for other substances.

Effect on judgement and other psychological effects

In high doses, influence on discernment or other mental states cannot be ruled out.

Effect on human microflora

Harmful effects on human micro-flora can not be ruled out.

Relevant toxicological properties

Distillates (petroleum), hydrotreated light:

LD oral rat: >2000 mg/kg

2-BUTOXYETHANOL

LC50 Inhalation rat 4h = 2,211 mg/L

LD50 Orally rat = 470 mg/kg

LD50 Dermal rabbit = 220 mg/kg

ALCOHOL ETHOXYLATE

LD50 Orally rat > 2000 mg/kg

Ethanol: LD50 oral rat: 14 400 mg/kg

LD50 oral mouse: 7060 mg/kg

LDoral dog: 5500 mg/kg

LC50 inhalation rat: 20 000 ppm/10h

Isopropanol: LD50 rat: 8000 mg/kg

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

2-BUTOXYETHANOL

LD50 fathead minnow (*Pimephales promelas*) 96h = 1900 mg/L

LC50 Ide (*Leuciscus idus*) 96h = 1600 mg/L

LC50 Bluegill (*Lepomis macrochirus*) 48h = 820 mg/L

LC50 goldfish (*Carassius auratus*) 96h = 1700 mg/L

Alcohol ethoxylate: LC50 96h fish 1-10 mg/l

EC50 Daphnia 1-10 mg/l

IC50 72h algae 1-10 mg/l

Distillates (petroleum), hydrotreated light:

LC50 fish: about 100 mg/l

EC50 Daphnia: about 100 mg/l

IC50 algae: about 100 mg/l

Ethanol: LC50 fish 96h: 13 480 mg/l (Pimephales promelas)

EC50 Daphnia: 7800 mg/l

ICLo algae 7d: 5000 mg/l (Scenedesmus sp.)

12.2 Persistence and degradability

No information about persistence or degradability exists but there is no reason to suppose that the product is persistent.

12.3 Bioaccumulative potential

No information exists on bioaccumulation, but there is no cause for concern in respect of this.

12.4 Mobility in soil

No information about mobility in the nature exists but there is no reason to suppose the product to be ecologically harmful because of this.

12.5 Results of PBT and vPvB assessment

No chemical safety report has been executed.

12.6 Other adverse effects

No other adverse effects identified.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste handling for the product

The product is toxic or hazardous to health and any waste from it should therefore be considered dangerous, if it is not treated in order to eliminate this risk.

Also take local regulations for dealing with waste into account.

Cf. also national waste regulations.

Recycling of the product

Small quantities are not normally recycled. In the case of larger quantities, contact the distributor.

Transportation of waste

Waste class J(1) - Substances classified as harmful or irritating.

SECTION 14 TRANSPORT INFORMATION

PROPER SHIPPING NAME	Flammable liquid n.o.s. (ethanol, isopropanol)		
Toll. reg. no.			
HAZCHEM			
ADR (Road)			
UN No.	1993	Dang. goods	Yes
Class	3	Label	3
Haz. id. no	30	Marginno.	
RID (Railway)			
UN No.	1993	Dang. goods	Yes
Class	3	Label	3
Haz..id.no	30		
IMDG (Sea)			
UN No.	1993	Dang. goods	Yes
Class		Label	
Packaging group	II	EmS	F-E, S-E
MFAG		Marine Pollutant	Yes

Sub. risk	Page
Special precautions in connection with transport	none
Limited quantities(LQ)	
<p>When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, only the following prescriptions shall be complied with: each package shall display a diamond-shaped figure with the following inscription: - 'UN 1993' or, in the case of different goods with different identification numbers within a single package: - the letters 'LQ'</p>	

SECTION 15 REGULATORY INFORMATION

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

The product is classified and labeled according to valid EU directives

15.2 Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16 OTHER INFORMATION

16a. Indication of where changes have been made to the previous version of the safety data sheet Revisions of this document

REVISION STATEMENT: This revision updates the following sections of this Material Safety Data Sheet:
1-16

Revision Date: JULY 06, 2013

16b. Legend to abbreviations and acronyms used in the safety data sheet

Full texts for Hazard Class and Category Code mentioned in section 3

Asp Tox 1 Aspiration toxicity (Category 1)

No phys haz Non-assigned physical hazard

Acute Tox 4*dermal* Acute toxicity (Category 4 skin)

Acute Tox 4*oral* Acute toxicity (Category 4 oral)

Acute Tox 4*vapour* Acute toxicity (Category 4 vapours)

Skin Irrit 2 Causes irritation (Category 2)

Eye Irrit 2 Irritates eyes (Category 2)

No environmental hazard Not classified as being environmentally hazardous

Eye Dam 1 Causes irreversible eye damage (Category 1)

Flam. Liq. 2, Flammable liquid (Category 2)

STOT SE 3, Specific target organ toxicity — single exposure (Category 3)

Comprehensive definition of the hazards mentioned in Section 2

Skin Irrit 2

One or more criteria 1-3 for irritation of skin is applicable

Eye Dam 1

If, when applied to the eye of an animal, a substance produces at least in one animal effects on the cornea, iris or conjunctiva that are not expected to reverse or have not fully reversed within an observation period of normally 21 days and/or at least in 2 of 3 tested animals, a positive response of:

- corneal opacity ≥ 3 and/or

- iritis $> 1,5$

calculated as the mean scores following grading at 24, 48 and 72 hours after application of the test material

Asp Tox 1A

A mixture which contains a total of 10 % or more of a substance or substances classified in Category 1, and has a kinematic

viscosity of 20.5 mm²/s or less, measured at 40 °C, shall be classified in Category 1

Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road
RID Regulations concerning the International Transport of Dangerous Goods by Rail

16c. Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list,

1272/2008 Annex I , as updated to 2013-03-05.

Where such data was lacking, on the second hand the documentation on which this official classification is based was used, e.g. IUCLID (International Uniform Chemical Information Database). On the third hand, information was used from reputable international chemical suppliers, and on the fourth hand from other available information, e.g. safety data sheets from other suppliers or information from non-profit associations, whereby the reliability of the source was judged by an expert. If, in spite of this, reliable information was not found, the hazards were judged by expert opinions based on the known properties of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

453/2010 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)

1272/2008 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

1999/45/EC DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

89/391 COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

98/24 COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

1907/2006 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 Annex I

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

The calculation of the hazards of this mixture has been performed as an evaluation by applying a weight of evidence determination using expert judgement in accordance with 1272/2008 Annex I, weighing all available information having a bearing on the determination of the hazards of the mixture, and in accordance with 1907/2006 Annex XI.

16e. List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

Full text for risk phrases mentioned in section 3

R65 Harmful: may cause lung damage if swallowed

R11 Highly flammable

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R36/38 Irritating to eyes and skin

R38 Irritating to skin

R41 Risk of serious damage to eyes

Full texts for hazard statements mentioned in section 3

H304 May be fatal if swallowed and enters airways
H312 Harmful in contact with skin
H302 Harmful if swallowed
H332 Harmful if inhaled
H315 Causes skin irritation
H319 Causes serious eye irritation
H318 Causes serious eye damage
H225 Highly flammable liquid and vapour
H336 May cause drowsiness or dizziness.

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

Other relevant information

Classification in accordance with 1272/2008

Causes irritation (Category 2)
Causes irreversible eye damage (Category 1)
Aspiration toxicity (Category 1A)
Flam. Liq. 2, Flammable liquid (Category 2)

Label information in accordance with 1272/2008



Hazard pictograms

Signal words Danger

Hazard statements

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H318 Causes serious eye damage

H336 Highly flammable liquid and vapour

Precautionary statements

P102 Keep out of reach of children

P280 Wear protective gloves and face protection

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER or doctor/physician

P331 Do NOT induce vomiting

P405 Store locked up

P501 Dispose of Contents and container to authorised waste disposal facility

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value

TWA - Time Weighted Average

STEL - Short-term Exposure Limit

PEL - Permissible Exposure Limit

CAS - Chemical Abstract Service Number

Prepared according to the criteria of EU Regulation 1907/2006 and 453/2010

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.