SAFETY DATA SHEET

In accordance with 1907/2006 Annex II (2015/830) and 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)
Issued 2016-05-30
Version number 1.0

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

1.1. Product identifier

Trade name	Clas Ohlson Asphalt Remover
Article number	31-1190-3

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

Identified uses	Degreasers (cold degreasing, de-waxing, de-polishing)

1.3. Details of the supplier of the safety data sheet

Company	Clas Ohlson AB SE-793 85 Insjön Sweden
Telephone	+46 (0)247-444 00
E-mail	kundtjanst@clasohlson.se
Website	www.clasohlson.se

1.4. Emergency telephone number

Acute cases: Call 112, request poison information. Less acute cases: Call 111 (England, Wales and Scotland).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Aspiration toxicity (Category 1), H304
Irritates eyes (Category 2), H319

2.2. Label elements

Hazard pictogram

Signal word	Danger
Hazard statements	
H304	May be fatal if swallowed and enters airways
H319	Causes serious eye irritation
Precautionary statements	
P102	Keep out of reach of children
P261	Avoid breathing vapours and spray
P280	Wear eye protection
P301+P331+P310	IF SWALLOWED: Do NOT induce vomiting. Immediately call a a POISON CENTER or doctor/physician
P305+P351+P337+P313	IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container as hazardous waste to approved waste disposal in accordance with local and national regulations

SUPPLEMENTAL HAZARD INFORMATION

Contains HYDROCARBONS, C12 - C15, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS.

2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB
The constituent petroleum solvent contains <0.1% benzene, which entails that it is not classified as carcinogenic or mutagenic.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
HYDROCARBONS, C12 - C15, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS		
EC No: 920-107-4	Asp Tox 1; H304	≥60 - <100 %
OXIRANE, 2-METHYL-, POLYMER WITH OXIRANE, MONO(2-PROPYLHEPTYL) ETHER		
CAS No: 166736-08-9	Acute Tox 4*oral*, Eye Dam 1; H302, H318	≥1 - <3 %

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 complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: First aid measures

4.1. Description of first aid measures

Generally

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

Upon eye contact

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor.

Keep the eyelids wide open.

Upon skin contact

Wash the skin with soap and water.

If symptoms occur, contact a physician.

Upon ingestion

Immediately drink a couple of spoonful with cream or cooking oil.

DO NOT induce vomiting.

Contact a doctor.

Avoid that stomach content enters the lungs if vomiting occurs by holding the head low.

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

Upon eye contact

Smarting pain.

Irritation.

Upon ingestion

Risk of aspiration, resulting in chemical pneumonitis.

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

Symptomatic treatment.

When contacting a physician, take this SDS with you.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing agents

Extinguish with powder, carbon dioxide or foam.

Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

5.2. Special hazards arising from the substance or mixture

The product may ignite when heating to temperatures at or above the ignition point.

5.3. Advice for fire-fighters

In case of fire use a respirator mask.

Cool closed containers that were exposed to fire with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use recommended safety equipment, see section 8.

6.2. Environmental precautions

Avoid release to drains, soil or watercourses.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Not indicated.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid spillage, inhalation and contact with eyes and skin.

Wash your hands after using the product.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original package.

Store separate from food, fodder, fertiliser or similar substances.

7.3. Specific end uses

Not relevant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National limit values

All ingredients (cf. Section 3) lack occupational exposure limit values.

DNEL

No data available.

PNEC

No data available.

8.2. Exposure controls

Wash hands thoroughly after handling and before food intake or smoking.

Eye/face protection

Use protective glasses, safety goggles, or a visor.

Skin protection

Use protective gloves made of nitrile rubber.

Wear suitable protective clothing when necessary.

Respiratory protection

Use proper protective breathing equipment in case of insufficient ventilation.

Breathing apparatus with combined gas/particle filter (A/P3).

8.2.3. Environmental exposure controls

No specific measures needed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance	Form: liquid. Colour: colourless.
b) Odour	solvent
c) Odour threshold	Not applicable
d) pH	Not indicated
e) Melting point/freezing point	<0 °C
f) Initial boiling point and boiling range	≥210 - <280 °C
g) Flash point	>100 °C ASTM D 93
h) Evaporation rate	Not indicated
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not indicated
k) Vapour pressure	<0.05 kPa
l) Vapour density	Not indicated
m) Relative density	≈0.8 g/cm^3
n) Solubility	Solubility in water: emulsifiable Soluble in organic solvents
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	>200 °C
q) Decomposition temperature	Not indicated
r) Viscosity	Not indicated
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Avoid heat, sparks and open flames.

10.5. Incompatible materials

Avoid contact with strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Not indicated.

Acute toxicity

Ingestion may cause irritation of mucous membranes, nausea and vomiting.

Inhalation of solvent fumes and alcohol mist may cause headache, dizziness, tiredness and nausea.

OXIRANE, 2-METHYL-, POLYMER WITH OXIRANE, MONO(2-PROPYLHEPTYL) ETHER

LD50 rat 24h: 300 - 2000 mg/kg Orally

Skin corrosion/irritation

Can cause dry or cracked skin during prolonged/frequently repeated contact.

Serious eye damage/irritation

Eye contact may cause burning pain or irritation.

Respiratory or skin sensitisation

Not indicated.

Germ cell mutagenicity

Not indicated.

Carcinogenicity

Not indicated.

Reproductive toxicity

Not indicated.

STOT-single exposure

Not indicated.

STOT-repeated exposure

Not indicated.

Aspiration hazard

Ingestion of the product may lead to aspiration, and as a result chemical pneumonia.

SECTION 12: Ecological information

12.1. Toxicity

The product, according to current criteria and based on available information, is considered not to be harmful to the environment.

HYDROCARBONS, C12 - C15, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

LL0 Rainbow trout (Oncorhynchus mykiss) 96h: 1000 mg/l

EL0 Freshwater water flea (Daphnia magna) 48h: 1000 mg/l

NOELR Algae (Selenastrum capricornutum) 72h: 100 mg/l

EL0 Algae (Selenastrum capricornutum) 72h: 1000 mg/l

OXIRANE, 2-METHYL-, POLYMER WITH OXIRANE, MONO(2-PROPYLHEPTYL) ETHER

EC50 Freshwater water flea (Daphnia magna) 48 h: 1 - 10 mg/L

LC50 Zebra fish (Brachydanio rerio) 96h: 10 - 100 mg/L

12.2. Persistence and degradability

The product degrades easily in the natural environment.

The surfactants used in this product comply with the criteria for biodegradability under Regulation 648/2004.

12.3. Bioaccumulative potential

This product or its ingredients do probably not accumulate in nature.

12.4. Mobility in soil

Information about mobility in nature is not available.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects

Not indicated.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste handling of the product

Product as well as packaging must be disposed as hazardous waste.

Observe local regulations.

Classification according to 2006/12

Recommended LoW-code: 07 06 04 Other organicsolvents, washing liquids and mother liquors

SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number

Not classified as dangerous goods

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

14.8 Other transport information

Not applicable

SECTION 15: Regulatory information

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

The Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.

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

This is the first version

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)
Acute Tox 4*oral*	Acute toxicity (Category 4 oral)
Eye Dam 1	Irreversible Eye Effects (Category 1)

Comprehensive definition of the hazards mentioned in Section 2

Asp Tox 1

Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard, based on reliable and good quality human evidence.

Acute Tox 4*oral*

ATE (acute toxicity estimate) 300-2000 mg/kg.

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.

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
IMDG International Maritime Dangerous Goods Code
ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA The International Air Transport Association

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 2016-05-30.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006 Annex II (2015/830)	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)
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
648/2004	REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents
2006/12	DIRECTIVE 2006/12/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 April 2006 on waste
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

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

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I , where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI .

16e. List of relevant hazard statements and/or precautionary statements

Full texts for hazard statements mentioned in section 3

H304 Aspiration toxicity (Category 1)
H302 Acute toxicity (Category 4 oral)
H318 Irreversible Eye Effects (Category 1)

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

Warning for misuse

Not indicated.

Other relevant information

Editorial information

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, www.kemrisk.se