

SAFETY DATA SHEET

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

1.1 Product identifier

Penetrant

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

Universal lubricant

1.3 Details of the supplier of the safety data sheet

Supplier Agro Oil
Box 30192
104 25 Stockholm, Sweden
Telephone +46 (0)10-556 00 00
E-mail info@agrol.se

1.4 Emergency telephone number

Sweden

Swedish Poisons Information Centre 010-456 67 00 (Open 24/7)
Emergency 112 (Ask for the Poison Centre)

Finland

Poison Information Centre 09-471 977 (Open 24/7)
Emergency 112 (Ask for the Poison Centre)

Norway

Norwegian Poison Information Centre 22 59 13 00 (Open 24/7)
Emergency 113 (Ask for the Poison Centre)

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Aerosol 1, H222+H229
STOT SE 3, H336

2.2 Label elements

Hazard pictograms





19.08.2022

Penetrant

Signal word

DANGER

Contains

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H336 May cause drowsiness or dizziness.

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container to approved waste disposal facility in accordance with local regulations

Other labelling

EUH066. Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Vapours may cause headache, fatigue, dizziness and nausea.

SECTION 3. COMPOSITION/INFORMATION OM INGREDIENTS

3.2 Mixtures

Classification according to Regulation (EC) No 1272/2008 [CLP]

Name	EC no.	CAS no.	REACH reg no.	% (w/w)	Hazard statements
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	919-857-5	64742-48-9	01-2119463258-33	40-60	Flam. Liq. 3, H226 STOT SE 3, H336 Asp.Tox. 1, H304 EUH066
Distillates (petroleum), solvent-dewaxed heavy paraffinic*	265-169-7	64742-65-0	01-2119471299-27	25-40	-
Propane	200-827-9	74-98-6	01-2119486944-21	10-15	Flam. Gas 1, H220 Press. Gas, H280
Butane**	203-448-7	106-97-8	01-2119474691-32	5-10	Flam. Gas 1, H220 Press. Gas, H280
Isobutane**	200-857-2	75-28-5	01-2119485395-27	3-5	Flam. Gas 1, H220

*Contains less than 3% DMSO extract, measured according to IP346, and is therefore not classified as carcinogenic (Note L).

** Contains less than 0,1% butadiene (EG-nr 203-450-8)



19.08.2022

Penetrant

Other information

For a full text of hazard statements: see Section 16

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: Fresh air and rest. If difficulties in breathing get medical advice.
After eye contact: Rinse the eyes gently with water. If symptoms persist consult a doctor.
After skin contact: Take off contaminated clothing. Wash skin with soap and water
After ingestion: Rinse mouth and drink water. Do **not** induce vomiting. Contact a doctor if experiencing symptoms.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: May cause drowsiness or dizziness. Vapours may cause headache, fatigue, dizziness and nausea.
Eye: May cause mild eye irritation.
Skin: Repeated exposure may cause skin dryness.
Ingestion: Due to the physical properties of the product, ingestion is unlikely. If aspiration into lungs in connection with ingestion or vomiting, chemical pneumonia may arise. May cause nausea, headache, dizziness and intoxication.

4.3 Indication of any immediate medical attention and special treatment needed

-

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Can be extinguished using dry powder, foam, carbon dioxide or water fog.

Unsuitable extinguishing media: Do not use direct water jet.

5.2 Special hazards arising from the substance or mixture

Extremely flammable. Container may burst or explode if heated. In case of fire, toxic and corrosive gases may develop.

5.3 Advice for firefighters

Precautions according to standard procedure for chemical fires. Containers near the fire should be moved or cooled with water. Prevent the extinguishing water from contaminating surface water or the groundwater system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition near the spilled product. Avoid contact with eyes and skin. Ensure adequate ventilation in buildings or confined spaces.



19.08.2022

Penetrant

6.2 Environmental precautions

Stop leak at the source if safe to do so. Do not allow discharge to enter sewers, watercourses or the ground.

6.3 Methods and material for containment and cleaning up

Contain/absorb spillages with suitable absorbent material such as sand, soil, vermiculite, diatomaceous earth or active clay. Collect in a suitable container. Disposal of waste must be in accordance with national regulations.

6.4 Reference to other sections

See Section 8 for Exposure controls / personal protection and Section 13 for disposal considerations..

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid prolonged or repeated contact with skin. Avoid inhalation of vapours, mist or fumes. Do not reuse soiled clothing unless laundered. Keep away from heat, sparks and open flames. Protect against direct sunlight.

7.2 Conditions for safe storage, including any incompatibilities

May not be exposed to direct sunlight and temperatures above 50 °C. Store the container in a cool and dry place. Keep out of reach of children.

7.3 Specific end use

See Section 1.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits according to National regulations

AFS 2018:1, Sweden

Substance	Cas nr	NGV ppm	NGV mg/m3	KTV ppm	KTV mg/m3	Note	Year
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-48-9	50	300	100	600	H,V	2011
Oil mist, including oil fumes	-		1		3	38, 39	1990

Note:

38) When heated, some oils give rise to polycyclic aromatic hydrocarbons, which can be carcinogenic. In addition, mineral oils themselves may contain such substances.

39) For a fog of aqueous cutting fluid or the like, where substances other than oils also can be included, the value is applied as the total content of the anhydrous part. For substances with individual lower exposure limit values, they should be applied.

H: The substance can be easily absorbed through the skin

V: Indicative short-term limit value.



19.08.2022

Penetrant

654/2020, Finland

Substance	Cas nr	HTP 8 hours		HTP 15 minutes		Note	Year
		ppm	mg/m3	ppm	mg/m3		
Oil mist	-	-	5	-	-	-	1981
Propane	74-98-6	800	1500	1100	2000	Annex 4	2012
Butane	106-97-8	800	1900	1000	2400	Annex 4	1981
Isobutane	75-28-5	800	1900	1000	2400	Annex 4	1981

Annex 4. Gases that cause suffocation by displacing the oxygen in the air
Exposure to certain gases entails, in addition to the risk of suffocation, also other health effects. Such gases are, for example, propane, butane and isobutane.

Regulations concerning Action and Limit values, Norway

Name	Cas nr	ppm	mg/m3	Note	Last amended
Oil vapour	-	-	50	-	-
Oil mist (mineral oil particles)	-	-	1	-	-
Propane	74-98-6	500	900	-	-
Butane	106-97-8	250	600	-	-

8.2 Exposure controls

Appropriate technical measures

Ensure adequate ventilation. Methods are designed to prevent direct contact.

Personal protection

Respiratory protection: Use respiratory protection when insufficient ventilation. Respiratory mask with filter A2/P3.

Eye/face protection: Wear eye protection (safety glasses with side shields or full face shield) when risk of splashing.

Skin protection: Wear protective gloves (nitrile) and protective clothing.

Environmental exposure control

Prevent discharges into drains.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	Colourless
Odour:	Solvent
Melting point / freezing point:	Testing is not relevant or possible for this type of product.
Boiling point or initial boiling point and boiling range:	Testing is not relevant or possible for this type of product.
Flammability:	Extremely flammable aerosol. Packed in a pressurised container, which may burst if heated.
Upper / lower flammability or explosive limits:	No data available



19.08.2022

Penetrant

Flash point:	Not relevant (aerosol)
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH	Testing is not relevant or possible for this type of product.
Kinematic viscosity:	Not relevant (aerosol)
Solubility:	No data available
Partition coefficient n-octanol/water:	No data available
Vapour pressure	Testing is not relevant or possible for this type of product.
Density and/or relative density:	0,73 g/cm ³
Relative vapour density:	No data available
Particle characteristics:	Not relevant (aerosol)

9.2 Other information

9.2.1. Information with regard to physical hazard classes

Aerosols: Extremely flammable aerosol.
Pressurised container: May burst if heated.

9.2.2 Other safety characteristics

Not relevant

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is not reactive under normal conditions.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Strong acids, strong bases, strong oxidizing agents and strong reducing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11. TOXIKOLOGICAL INFORMATION

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

Acute toxicity

Not considered to be acutely toxic.

Distillates (petroleum), solvent-dewaxed heavy paraffinic	LD ₅₀ Rat (oral): >5000 mg/kg LD ₅₀ Rabbit (dermal): >5000 mg/kg
---	---

Corrosive / irritating on the skin

Repeated and prolonged contact may appear dehydrating on the skin.

Serious eye damage / irritation

May cause a mild transient eye irritation.

Respiratory / skin sensitization

Not considered to be sensitizing.

Germ cell mutagenicity

Not considered to be cause mutations in germ cells.

Carcinogenicity

Not considered to be carcinogenic.

Toxic to reproduction

Not considered to be toxic to reproduction.

Specific organ toxicity-single exposure

May cause drowsiness or dizziness. Overexposure to vapours may cause headache, fatigue, dizziness and nausea.

Specific organ toxicity-repeated exposure

Prolonged and repeated exposure to solvents over a long time may lead to permanent health problems.

Aspiration Hazard

Not considered to be an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Based on available information, this mixture contains no substance which is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations $\geq 0.1\%$ (w/w).

SECTION 12. ECOLOGICAL INFORMATION

The product is not classified as hazardous to the environment.



19.08.2022

Penetrant

12.1 Toxicity

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics LC₅₀ Fish 96 h: 2200 mg/L (Pimephales promelas)

Distillates (petroleum), solvent-dewaxed heavy paraffinic LC₅₀ Fish 96 h: > 5000 mg/L (Onchorhynchis mykiss)

12.2 Persistence and degradability

No data available for the product.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Degradability: 70%, 28 d. (OECD 301F)

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT och vPvB assessment

Based on available information, this mixture contains no substance $\geq 0,1\%$ that meets the PBT or vPvB criteria according to Annex XIII to Regulation (EC) No. 1907/2006 (REACH).

12.6 Endocrine disrupting properties

Based on available information, this mixture contains no substance which is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations $\geq 0.1\%$ (w/w).

12.7 Other adverse effects

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Product residues, spills etc. are classified as hazardous waste. Disposal, transportation, storage and handling of the waste must be in accordance with national regulations. Product waste must not be allowed to contaminate soil or water, or released into the environment.

Classified as hazardous waste, with hazard class HP 3 - flammable.

Suggested waste code (EWC): 14 06 03* Other solvents and solvent mixtures

Packaging

Empty aerosols are sorted as packaging.

EWC-code: 15 01 04, Metallic packaging

Penetrant



19.08.2022

Packaging containing product residues that are not drip dry must be handled as hazardous waste and disposed of properly sealed.

EWC-code: 15 01 10*, Packaging containing residues of or contaminated by hazardous substances.

SECTION 14. TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA /ICAO
14.1 UN-number or ID number	UN1950	UN1950	UN1950	UN1950
14.1 UN proper shipping name	Aerosols	Aerosols	Aerosols	Aerosols
14.2 Transport hazard class	2.1	2.1	2.1	2.1
14.3 Packing group	N/A	N/A	N/A	N/A
14.4 Environmental hazards	No	No	No	No

14.5 Special precautions for user

Tunnel restriction code: (D)

EmS code: F-D, S-U

14.6 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15. REGULATORY INFORMATION

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

This safety data sheet is prepared in accordance with the EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH) and Commission Regulation (EU) No 2020/878 of 18 June 2020 amending the European Parliament and Council Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH).

Regulations

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substance and mixtures (CLP).

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste.

International Carriage of Dangerous Goods by Road (ADR)

International Carriage of Dangerous Goods by Rail (RID)

International Carriage of Dangerous Goods by Inland Waterways (ADN)



19.08.2022

Penetrant

IATA Dangerous goods regulation / ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air (IATA /ICAO)

International Maritime Dangerous Goods Code (IMDG)

Sweden

AFS 2011:19, amended by AFS 2018:2 (Chemical risks at work)

AFS 2018:1 (Occupational exposure limits)

KIFS 2017:7 (Chemical products and Biotechnological organisms Regulation)

Finland

654/2020 (Occupational exposure limits)

715/2001 (Chemical risks at work)

Norway

Regulations concerning the design and layout of workplaces and work premises (the Workplace Regulations)

Regulations concerning action and limit values for physical and chemical agents in the working environment and classified biological agents (Regulations concerning Action and Limit values)

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Please note! This safety data sheet is an English translation applicable for Sweden, Norway and Finland. A safety data sheet in local language is also available. Please refer to the Agro Oil webshop for safety data sheets in local languages. <https://webshop.agrol.se/>

Classification procedure

Test data is prioritized when classifying the product. When no test data are available the classification criteria in Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP) have been used.

Hazard statements in Section 3

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations

ADN	International Carriage of Dangerous Goods by Inland Waterways
ADR	International Carriage of Dangerous Goods by Road
BCF	Bio Concentration Factor
BOD5/COD	Biological Oxygen Demand 5 days/Chemical Oxygen demand
BOD (MITI)	Biological Oxygen Demand
DNEL	Derived No Effect Level
EC ₅₀	Effective Concentration (concentration that gives response in 50% of test subjects)
ECHA	European Chemical Agency
EmS	Emergency Schedule Information
HTP	Exposure value, concentrations of impurities in workplace air known to be harmful.



19.08.2022

Penetrant

IARC	International Agency for Research on Cancer
IATA/ICAO	IATA Dangerous goods regulation / ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air
IC ₅₀	Inhibitory Concentration (concentration that shows inhibition in 50% of the test subjects)
IMDG	International Maritime Dangerous Goods Code
KTV	Short term exposure values, normally 15 minutes
LC ₅₀	Lethal Concentration (concentration causing the death of 50% of a group of test animals)
LD ₅₀	Lethal Dose (dose causing the death of 50% of a group of test animals)
Log Pow	Partition coefficient of octanol - water
MITI	Ministry of International Trade and Industry, Japan
NGV	Long term exposure value, normally 8 hours.
NOEC	No Observed Effect Concentration
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bio-accumulative and Toxic substance
PNEC	Predicted No Effect Concentration
RID	International Carriage of Dangerous Goods by Rail
STEL	Short Term Exposure Limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	very Persistent and very Bioaccumulative

Advice on education

The user of this product should have training that is relevant to the properties of the product and relevant use.

References

Information from the supplier: SDS in Swedish, version 1.
Classification & Labelling Inventory Database, ECHA.
Registered substances, ECHA.

Version description

The information has been modified under the following sections in the safety data sheet: 1-3, 5-6, 8-16

The safety data sheet is dated 19.08.2022 and replaces the version dated 14.06.2019.