Diesel Injector Cleaner

25.08.2022

SAFETY DATA SHEET

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

1.1 Product identifier

Diesel Injector Cleaner

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

Diesel additive

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 Posion 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

Acute Tox. 4, H302
Asp. Tox. 1, H304
Skin Irrit. 2, H315
Aquatic Chronic 2, H411

2.2 Label elements

Hazard pictograms

Signal word

DANGER

Contains

2-ethylhexyl nitrate, Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics, Solvent naphtha (petroleum), heavy aromatic, Distillates (petroleum), hydrotreated light

Hazard statements

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P102	Keep out of reach of children.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P501	Dispose of contents/container to approved waste disposal facility in accordance with local regulations

Other labelling

EUH044	Risk of explosion if heated under confinement.

2.3 Other hazards

None known

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, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	918-481-9	-	01-2119457273-39	40-60	Asp tox 1, H304
2-ethylhexyl nitrate	248-363-6	27247-96-7	01-2119539586-27	30-40	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 2, H411 EUH044 EUH066
2,6-di-tert-butylphenol	204-884-0	128-39-2	01-2119538013-51	3-7	Skin irrit 2, H315 Aquatic Acute 1, H400 Aquatic Chronic,1, H410
2-Ethylhexanol	203-234-3	104-76-7	01-2119487289-20	< 5	Skin irrit 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335
Polyalkylphenol, alkyl amine	Confidential	Confidential	**	< 3	Skin irrit 2, H315
Solvent naphtha (petroleum), heavy aromatic	265-198-5	64742-94-5	01-2119463588-24	2,5-< 10	Asp tox 1, H304
Distillates (petroleum), hydrotreated light	265-149-8	64742-47-8	01-2119456620-43	3-7	Asp tox 1, H304 STOT SE 3, H336 EUH066
Naphthalene	202-049-5	91-20-3	01-2119561346-37	< 1	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,4-trimethylbenzene	202-436-9	95-63-6	01-2119472135-42	< 1	Flam liq 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 2, H411
Phenol, 4-dodecyl-, branched[1]	640-104-9	210555-94-5	01-2119513207-49	<0,1	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 M-faktor = 10 Aquatic Chronic 1, H410 M-faktor = 10

** Not available or REACH registration not required
1) The substances is listed on the ECHA Candidate List.

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: In case of overheating, smoke and fumes appear irritating to the upper respiratory tract and lungs.
Eye: May cause mild eye irritation.
Skin: Repeated and prolonged contact may appear dehydrating on the skin and cause redness, skin cracking and eczema (dermatitis).
Ingestion: Small amounts of fluid that can enter the lungs by ingestion or vomiting can lead to chemical pneumonia or pulmonary edema, which can be fatal.

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Can be extinguished using dry powder, foam, waterfog or carbon dioxide.
Unsuitable extinguishing media: Do not use direct water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire, toxic and irritating gases may develop.
May form explosive mixtures with air.
Risk of explosion if heated under confinement.

5.3 Advice for firefighters

Precautions according to the standard procedure for chemical fires. Use water **only** to cool down containers that are exposed to fire.

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.

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. Inform the competent authorities if the product has polluted the environment (sewage, watercourses, soil or air).

6.3 Methods and material for containment and cleaning up

Contain/absorb spillages with suitable absorbent material such as sand, saw dust or vermiculite. 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.

7.2 Conditions for safe storage, including any incompatibilities

Keep cool and dry in a well-ventilated place. Protected from sunlight. Containers must be kept tightly closed and sealed. Keep out of reach of children.

7.3 Specifik 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	NGV	KTV	KTV	Note	Year
		ppm	mg/m3	ppm	mg/m3		
Oil mist, including oil fumes	-	-	1	-	3	38, 39	1990
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	-	50	300	100	600	H,V	2011
2-Ethylhexanol	104-76-7	1	5,4	-	-	-	2018
Naphthalene	91-20-3	10	50	15	80	V	2000

1,2,4-trimethylbenzene	95-63-6	20	100	35	170	-	2018

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.

654/2020, Finland

Substance	Cas nr	HTP 8 hours		HTP 15 minutes		Note	Year
		ppm	mg/m3	ppm	mg/m3		
Oil mist	-	-	5	-	-	-	1981
2- ethylhexanol	104-76-7	1	5,4	-	-	-	2014
Petroleum naphtha, grp 1	-	-	500	-	-	-	2007
Naphthalene	91-20-3	1	5	2	10		2007
1,2,4-trimethylbenzene	95-63-6	20	100	-	-	-	1998

Regulations concerning Action and Limit values, Norway

Name	Cas nr	ppm	mg/m3	Note	Last amende
Oil vapour	-	-	50	-	-
Oil mist (mineral oil particles)	-	-	1	-	-
Decanes and other higher aliphatic hydrocarbons	-	40	275	-	-
2- ethylhexanol	104-76-7	1	5,4	E	2018
Naphthalene	91-20-3	10	50	E	-
1,2,4-trimethylbenzene	95-63-6	20	100	E	-

E: The EU has adopted a recommended limit value for the substance.

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.

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

Skin protection: Wear protective gloves (polyvinyl alcohol, nitrile, polyethylene / ethylene vinyl alcohol laminate or teflon) 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:	Liquid
Colour:	Light brown
Odour:	Petroleum
Melting point / freezing point:	Not available
Boiling point or initial boiling point and boiling range:	> 150 °C
Flammability:	The product is not classified as flammable but can ignite and maintain a fire.
Upper / lower flammability or explosive limits:	Not available
Flash point:	> 61 °C
Auto-ignition temperature:	>200 °C
Decomposition temperature:	>100 °C
pH	Not relevant
Kinematic viscosity:	<7 mm^2/S
Solubility:	Insolube in water, Soluble in hydrocarbons
Partition coefficient n-octanol/water:	Not available
Vapour pressure	Not available
Density and/or relative density:	0,82 $g/cm^{3'}$
Relative vapour density:	Not available
Particle characteristics:	Not relevant (liquid)

9.2 Other information

9.2.1. Information with regard to physical hazard classes

Not relevant

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

None specific.

10.5 Incompatible materials

The product may react with strong oxidizing 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

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	LD_{50} Oral Rat > 5000 mg/kg LD_{50} Dermal Rabbit: > 5000 mg/kg LC_{50} Inhalation Rat: > 4951 mg/L/4h
2,6-di-tert-butylphenol	LD_{50} Oral Rat : > 5000 mg/kg LD_{50} Dermal Rat: > 1000 mg/kg LC_{50} Dermal Rabbit: > 10 000 mg/kg
2-Ethylhexanol	LD_{50} Dermal Rat: > 3000 mg/kg LC_{50} Inhalation Rat: > 0,89 - <5,3 mg/L/4h
Solvent naphtha (petroleum), heavy aromatic	LD_{50} Oral Rat : 7050 mg/kg LD_{50} Dermal Rabbit: > 3160 mg/kg
Distillates (petroleum), hydrotreated light	LD_{50} Oral Rat: > 5000 mg/kg LD_{50} Dermal Rabbit: > 3000 mg/kg

Corrosive / irritating on the skin

Causes skin irritation.
2-Ethylhexanol: Skin irritant, rabbit (OECD 404).

Serious eye damage / irritation

May cause mild eye irritation.
2-Ethylhexanol: Eye irritant, rabbit (OECD 405).

Respiratory / skin sensitization

Not considered 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

Fumes can be irritating to the upper respiratory tract and lungs.

Specific organ toxicity-repeated exposure

No information available.

Aspiration Hazard

The product can cause chemical pneumonia if it is swallowed and enters airways.

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 ≥ 0.1% (w/w).

SECTION 12. ECOLOGICAL INFORMATION

The product is classified as hazardous to the environment (H411)

12.1 Toxicity

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	LC_{50} Fish 96 h: 1000 mg/L (Oncorhynchus mykiss) EC_{50} Daphnia 48 h: 1000mg/L (D. magna) IC_{50} Algae 72 h: 1000 mg/L (Pseudokirchneriella subcapitata)
2-ethylhexyl nitrate	EC50 Daphnia 48 h: 0,855 mg/L (D. magna) IC50 Algae 72 h: 0,615 mg/L (Pseudokirchneriella subcapitata)
2,6-di-tert-butylphenol	LC_{50} Fish 96 h: 1,4 mg/L (Pimephales promelas) EC_{50} Daphnia 48 h: 0,45 mg/L (D. magna) IC_{50} Algae72 h: 1000 mg/L (Pseudokirchneriella subcapitata)
Distillates (petroleum), hydrotreated light	EC_{50} Daphnia 48 h: 4720mg/L (D. magna)
1,2,4-Trimethylbenzene	LC_{50} Fish 96 h: 7,72 mg/L (Pimephales promelas) EC_{50} Daphnia 48 h: 3,6 mg/L (D. magn) IC_{50} Algae 72 h: 1,0 mg/L (Pseudokirchneriella subcapitata)

12.2 Persistence and degradability

Not rapidly biodegradable.

2-ethylhexyl nitrate	Biodegradable: 0 %, 28 d. (OECD301C).
2,6-di-tert-butylphenol	Biodegradable: 5 %, 28 d. (OECD301B).
2-Ethylhexanol	Biodegradable: 99 %, 14 d. (OECD301E). BOD5/COD: 0,6
Distillates (petroleum), hydrotreated light	Biodegradable: 11 %, 28 d. (OECD301D).

12.3 Bioaccumulative potential

Contains substances that can bioaccumulate.

2-ethylhexyl nitrate	BCF = 295,12 Log Pow = 4,12
2,6-di-tert-butylphenol	BCF = 660 Log Pow = 4,48

2-Ethylhexanol	BCF = 27 Log Pow = 3,1
Solvent naphtha (petroleum), heavy aromatic	BCF = 159
Distillates (petroleum), hydrotreated light	BCF = 159 Log Pow = ca 4

12.4 Mobility in soil

The product is insoluble in water and is not considered to be mobile in soil.

12.5 Results of PBT och vPvB assessment

Based on available information, this mixture contains no substance 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 ≥ 0.1% (w/w).

12.7 Other adverse efffects

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 hazardous properties:
HP 4 Irritant – skin irritation and eye damage
HP 5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6 Acute Toxicity
HP 14 Ecotoxic

Suggested waste code (EWC): 13 07 03* other fuels (including mixtures)
Classified as conventional waste according to Commission Regulation (EU) No 1357/2014 on waste.

Packaging

EWC-code: 15 01 02, Plastic packaging
EWC-code: 15 01 04, Metallic packaging

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	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexyl nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexyl nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexyl nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ethylhexyl nitrate)
14.3 Transport hazard class	9	9	9	9
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes	Yes	Yes	Yes

14.6 Special precautions for user

Tunnel restriction code: (E)
EmS code: F-A, S-F

14.7 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)
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 Biotechnicological 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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360F	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects

H411	Toxic to aquatic life with long lasting effects.
EUH044	Risk of explosion if heated under confinement.
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.
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 5.
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, 8-9, 11-16
The safety data sheet is dated 25.08.2022 and replaces the version dated 2004.2020.