INJECTOR CLEANER MOTO

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Reference number: 2801
Issue date: 23-04-26 Revision date: 23-04-26 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : INJECTOR CLEANER MOTO
UFI : YKK4-82E2-V80F-NDPC
Product code : 2801 # 731280R0
Type of product : Detergent

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use
Function or use category : Cleaning/washing agents and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Distributor
SADAPS BARDAHL Additives & Lubricants
ZI TOURNAI OUEST 2 - RUE DU MONT DES CARLIERS, 3
7522 TOURNAI
BELGIQUE
T +32 (0).69.59.03.60, F +32 (0).69.59.03.61
msds@bardahlfrance.com, www.bardahl.be

Supplier
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msds@bardahlfrance.com, www.bardahl.be

1.4. Emergency telephone number

Emergency number : + 32 (0)70.245.245 / +33 (0)1.45.42.59.59

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	112 +356 2545 6508	
Saudi Arabia	Poison Control Center-Riyadh	General Directorate of Health Affairs Medial Province	+966 112324180 +966 112324189	
United Arab Emirates	Health Authority – Abu Dhabi (HAAD) Poison & Drug Information Center (PDIC)	P.O. Box 5674	+ 800-424	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3	H226
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhalation:vapour) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity – Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02 GHS07 GHS08

Signal word (CLP) : Danger

Contains : Ethylbenzene; xylene (mixture)

Hazard statements (CLP) : H226 - Flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs (central nerve, kidneys, liver) through prolonged or repeated exposure.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe vapours.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P331 - Do NOT induce vomiting.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to a hazardous or special waste collection point.

Child-resistant fastening : Applicable

Tactile warning : Applicable

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
xylene (mixture) (1330-20-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene (mixture) substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE); substance with a Community workplace exposure limit	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216-32	40-70	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg) Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Ethylbenzene substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE); substance with a Community workplace exposure limit	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4 REACH-no: 01-2119489370-35	5-15	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Dimethyl glutarate substance with national workplace exposure limit(s) (DE, SE)	CAS-No.: 1119-40-0 EC-No.: 214-277-2	1-10	Not classified
oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)	CAS-No.: 34140-91-5 EC-No.: 251-846-4 REACH-no: 01-2119974119-29	<3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC-No.: 918-481-9 REACH-no: 01-2119457273-39	<3	Asp. Tox. 1, H304 EUH066
Dimethyl succinate substance with national workplace exposure limit(s) (DE, SE)	CAS-No.: 106-65-0 EC-No.: 203-419-9	<3	Not classified
Dimethyl adipate substance with national workplace exposure limit(s) (DE, SE)	CAS-No.: 627-93-0 EC-No.: 211-020-6	<3	Not classified
Phenol, (dimethylamino)methyl-, polyisobutylene derivs.	-	<3	Aquatic Chronic 3, H412

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C10, aromatics, >1% naphthalene	EC-No.: 919-284-0 REACH-no: 01-2119463588-24	<1	Carc. 2, H351 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits**
xylene (mixture)	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216-32	(10 ≤ C < 100) STOT RE 2; H373

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Remove contaminated clothes. Wash skin with plenty of water. Wash contaminated clothing before reuse.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects : May cause damage to organs (kidneys) through prolonged or repeated exposure.

Symptoms/effects after inhalation : Harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Harmful in contact with skin. Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray. Dry powder. Foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Prevent liquid from entering sewers, watercourses, underground or low areas.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Eliminate every possible source of ignition. Ensure adequate ventilation, especially in confined areas. Keep public away from danger area. Equip cleanup crew with proper protection.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Recover the product with absorbent material.
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product.
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation.
Storage conditions : Store in a closed container. Keep out of frost.
Heat and ignition sources : Keep away from naked flames/heat. Keep away from ignition sources.
Storage area : Store in a dry place. Store in a well-ventilated place.
Special rules on packaging : Store in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Dimethyl glutarate (1119-40-0)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	8 mg/m³
	1,2 ppm

Dimethyl glutarate (1119-40-0)	
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	33 mg/m³
	5 ppm

Dimethyl succinate (106-65-0)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	8 mg/m³
	1,2 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	30 mg/m³
	5 ppm

Dimethyl adipate (627-93-0)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	8 mg/m³
	1,2 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	36 mg/m³
	5 ppm

naphthalene (91-20-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	50 mg/m³
	10 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	50 mg/m³
	10 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	53 mg/m³
	10 ppm
OEL STEL	80 mg/m³
	15 ppm
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	50 mg/m³
	10 ppm
Korttidsgrænseværdi (OEL STEL)	100 mg/m³
	20 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	5 mg/m³
	1 ppm
HTP (OEL STEL)	10 mg/m³

naphthalene (91-20-3)	
	2 ppm
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	50 mg/m³
	10 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	2 mg/m³
	0,4 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	50 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA	50 mg/m³
	10 ppm
Italy - Occupational Exposure Limits	
OEL TWA	50 mg/m³
	10 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	50 mg/m³
	10 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	50 mg/m³
TGG-15min (OEL STEL)	80 mg/m³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	20 mg/m³
NDSCh (OEL STEL)	50 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	50 mg/m³
	9,5 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	53 mg/m³
	10 ppm
VLA-EC (OEL STEL)	80 mg/m³
	15 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	50 mg/m³
	10 ppm
KGV (OEL STEL)	80 mg/m³
	15 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	53 mg/m³

naphthalene (91-20-3)	
	10 ppm
WEL STEL (OEL STEL)	80 mg/m³
	15 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	50 mg/m³
	10 ppm
USA - ACGIH® - Threshold Limit Values	
ACGIH® TLV® TWA	50 mg/m³
	10 ppm

Ethylbenzene (100-41-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylbenzene
IOEL TWA	442 mg/m³
	100 ppm
IOEL STEL	884 mg/m³
	200 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	440 mg/m³
	100 ppm
MAK (OEL STEL)	880 mg/m³
	200 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	87 mg/m³
	20 ppm
OEL STEL	551 mg/m³
	125 ppm
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	217 mg/m³
	50 ppm
Korttidsgrænseværdi (OEL STEL)	434 mg/m³
	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	220 mg/m³
	50 ppm
HTP (OEL STEL)	880 mg/m³
	200 ppm

Ethylbenzene (100-41-4)	
France - Occupational Exposure Limits	
Local name	Ethylbenzène
VLEP 8h (OEL TWA)	88,4 mg/m³
	20 ppm
VLEP CT (OEL STEL)	442 mg/m³
	100 ppm
Remark	Valeurs règlementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	88 mg/m³
	20 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	442 mg/m³
CK (OEL STEL)	884 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA	442 mg/m³
	100 ppm
OEL STEL	884 mg/m³
	200 ppm
Italy - Occupational Exposure Limits	
OEL TWA	442 mg/m³
	100 ppm
OEL STEL	884 mg/m³
	200 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	442 mg/m³
	100 ppm
OEL STEL	884 mg/m³
	200 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	215 mg/m³
TGG-15min (OEL STEL)	430 mg/m³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	200 mg/m³
NDSP (OEL C)	400 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	442 mg/m³
	100 ppm
OEL STEL	884 mg/m³

Ethylbenzene (100-41-4)	
	200 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	441 mg/m³
	100 ppm
VLA-EC (OEL STEL)	884 mg/m³
	200 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	220 mg/m³
	50 ppm
KGV (OEL STEL)	884 mg/m³
	200 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	441 mg/m³
	100 ppm
WEL STEL (OEL STEL)	552 mg/m³
	125 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	435 mg/m³
	100 ppm
KZGW (OEL STEL)	435 mg/m³
	100 ppm
USA - ACGIH® - Threshold Limit Values	
ACGIH® TLV® TWA	435 mg/m³
	100 ppm

xylene (mixture) (1330-20-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	435 mg/m³
	100 ppm
IOEL STEL	870 mg/m³
	200 ppm
Remark	Skin
EU - Binding Occupational Exposure Limit (BOEL)	
Local name	XYLENE
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	221 mg/m³
	50 ppm
MAK (OEL STEL)	442 mg/m³
	100 ppm

xylene (mixture) (1330-20-7)	
Belgium - Occupational Exposure Limits	
OEL TWA	221 mg/m³
	50 ppm
OEL STEL	442 mg/m³
	100 ppm
Denmark - Occupational Exposure Limits	
8-timers grænseværdi (OEL TWA)	109 mg/m³
	25 ppm
Korttidsgrænseværdi (OEL STEL)	218 mg/m³
	50 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	220 mg/m³
	50 ppm
HTP (OEL STEL)	440 mg/m³
	100 ppm
France - Occupational Exposure Limits	
VLEP 8h (OEL TWA)	221 mg/m³
	50 ppm
VLEP CT (OEL STEL)	442 mg/m³
	100 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	220 mg/m³
	50 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	221 mg/m³
CK (OEL STEL)	442 mg/m³
Ireland - Occupational Exposure Limits	
OEL TWA	221 mg/m³
	50 ppm
OEL STEL	442 mg/m³
	100 ppm
Italy - Occupational Exposure Limits	
OEL TWA	221 mg/m³
	50 ppm
OEL STEL	442 mg/m³
	100 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	221 mg/m³
	50 ppm

xylene (mixture) (1330-20-7)	
OEL STEL	442 mg/m³
	100 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	210 mg/m³
	47,5 ppm
TGG-15min (OEL STEL)	442 mg/m³
	100 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	100 mg/m³
NDSCh (OEL STEL)	200 mg/m³
Romania - Occupational Exposure Limits	
OEL TWA	221 mg/m³
	50 ppm
OEL STEL	442 mg/m³
	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	221 mg/m³
	50 ppm
VLA-EC (OEL STEL)	442 mg/m³
	100 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	221 mg/m³
	50 ppm
KGV (OEL STEL)	442 mg/m³
	100 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	220 mg/m³
	50 ppm
WEL STEL (OEL STEL)	441 mg/m³
	100 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	108 mg/m³
	25 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	220 mg/m³
	50 ppm
KZGW (OEL STEL)	440 mg/m³
	100 ppm

xylene (mixture) (1330-20-7)	
USA - ACGIH® - Threshold Limit Values	
ACGIH® TLV® TWA	435 mg/m³
	100 ppm
ACGIH® TLV® STEL	655 mg/m³
	150 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:
Safety glasses. ISO 16321-1

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
Gloves. ISO 374-1

8.2.2.3. Respiratory protection

Respiratory protection:
Good ventilation of the workplace required

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Yellow.
Odour	:	Not available

Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Not available
Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	30 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	< 20,5 mm²/s (40°C)
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	0,868 – 0,883 g/cm³ (20°C)
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Heat. Open flame. Sparks. Water, humidity. Freezing.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Harmful in contact with skin.
Acute toxicity (inhalation)	:	Inhalation:vapour: Harmful if inhaled.

INJECTOR CLEANER MOTO	
ATE CLP (dermal)	1961,869 mg/kg bodyweight
ATE CLP (vapours)	16,284 mg/l/4h

BUTYLAL (2568-90-3)	
LD50 oral rat	6873 mg/kg
LD50 dermal rat	> 2000 mg/kg

naphthalene (91-20-3)	
LD50 oral rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 0,4 mg/l air

Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Vapours)	17,2 mg/l/4h

xylene (mixture) (1330-20-7)	
LD50 oral rat	4300
LD50 dermal rabbit	1100 mg/kg

oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)	
LD50 oral rat	2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

naphthalene (91-20-3)	
LOAEL (animal/female, F0/P)	50 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:OECD Guideline 414 (Prenatal Developmental Toxicity Study)
LOAEL (animal/female, F1)	450 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:OECD Guideline 414 (Prenatal Developmental Toxicity Study)
NOAEL (animal/female, F0/P)	120 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline: other:OECD Guideline 414 (Prenatal Developmental Toxicity Study)

STOT-single exposure : May cause respiratory irritation.

Hydrocarbons, C10, aromatics, >1% naphthalene	
STOT-single exposure	May cause drowsiness or dizziness.

xylene (mixture) (1330-20-7)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : May cause damage to organs (central nerve, kidneys, liver) through prolonged or repeated exposure.

naphthalene (91-20-3)	
LOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
LOAEC (inhalation, rat, vapour, 90 days)	0,011 mg/l air Animal: rat, Guideline: EPA OPP 82-4 (90-Day Inhalation Toxicity), Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (dermal, rat/rabbit, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Ethylbenzene (100-41-4)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

xylene (mixture) (1330-20-7)	
NOAEC (inhalation, rat, vapour, 90 days)	4,35 mg/l
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)	
LOAEL (oral, rat, 90 days)	20 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: other:
NOAEL (oral, rat, 90 days)	0,4 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic, oral, animal/male, 90 days)	1 mg/kg bodyweight
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : May be fatal if swallowed and enters airways.

INJECTOR CLEANER MOTO	
Viscosity, kinematic	< 20,5 mm²/s (40°C)

BUTYLAL (2568-90-3)	
Viscosity, kinematic	1,88 mm²/s (25°C)

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

BUTYLAL (2568-90-3)	
LC50 - Fish [1]	27,344 mg/l
EC50 - Crustacea [1]	> 28,7 mg/l
EC50 72h - Algae [1]	> 1,3 mg/l (OCDE 201)
NOEC chronic fish	2,903 mg/l

BUTYLAL (2568-90-3)	
NOEC chronic crustacea	1,7 mg/l (OCDE 211)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
EC50 - Other aquatic organisms [1]	> 1000 mg/l (Water Flea (Daphnia Magna))
EC50 72h - Algae [1]	> 1000 mg/l Pseudokirchneriella subcapitata

Phenol, (dimethylamino)methyl-, polyisobutylene derivs.	
LC50 - Fish [1]	31 mg/l 4 days
EC50 - Other aquatic organisms [1]	> 100 mg/l aquatic invertebrates
EC50 96h - Algae [1]	> 450 mg/l (Selenastrum capricornutum)

Hydrocarbons, C10, aromatics, >1% naphthalene	
LC50 - Fish [1]	2 mg/l
EC50 - Crustacea [1]	3 mg/l
EC50 72h - Algae [1]	1,1 mg/l

naphthalene (91-20-3)	
EC50 - Crustacea [1]	2,16 mg/l
NOEC (chronic)	0,59 mg/l
NOEC chronic fish	≈ 0,37 mg/l

Ethylbenzene (100-41-4)	
LC50 - Fish [1]	4,2 mg/l Oncorhynchus mykiss (truite arc-en-ciel)
EC50 - Crustacea [1]	1,8 – 2,4 mg/l daphnia magna
EC50 72h - Algae [1]	5,4 mg/l Pseudokirchneriella subcapitata
NOEC chronic crustacea	0,96 mg/l (Ceriodaphnia dubia)

xylene (mixture) (1330-20-7)	
LC50 - Fish [1]	2,6 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	1 – 5 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	3 – 5 mg/l algae
ErC50 algae	4,36 mg/l Pseudokirchneriella subcapitata

oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)	
LC50 - Fish [1]	0,95 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1,4 mg/l
EC50 72h - Algae [1]	0,006 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0,00473 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (acute)	993,2 mg/kg

12.2. Persistence and degradability

BUTYLAL (2568-90-3)	
Biodegradation	30 – 40 % (28 days)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Persistence and degradability	Readily biodegradable.

Phenol, (dimethylamino)methyl-, polyisobutylene derivs.	
Biodegradation	20,7 % 28 days

Hydrocarbons, C10, aromatics, >1% naphthalene	
Persistence and degradability	Not rapidly degradable. (OECD 301F method).
Biodegradation	58 % (28d)

Ethylbenzene (100-41-4)	
Persistence and degradability	Readily biodegradable.
Biodegradation	70 – 80 % (28 jours - OECD 301E) 100% (6 jours - OECD 301E)

xylene (mixture) (1330-20-7)	
Persistence and degradability	Readily biodegradable.
Biodegradation	87,8 % 28 days

oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	61 % 28 days

12.3. Bioaccumulative potential

BUTYLAL (2568-90-3)	
Bioconcentration factor (BCF REACH)	30,38
Partition coefficient n-octanol/water (Log Kow)	2,77

Ethylbenzene (100-41-4)	
BCF - Fish [1]	< 100
Partition coefficient n-octanol/water (Log Pow)	3,5

xylene (mixture) (1330-20-7)	
BCF - Fish [1]	5,4 – 25,9 Oncorhynchus mykiss (Rainbow trout)
Partition coefficient n-octanol/water (Log Pow)	2,77 – 3,2
Bioaccumulative potential	not bioaccumulable.

oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) (34140-91-5)	
Bioconcentration factor (BCF REACH)	70,8
Partition coefficient n-octanol/water (Log Kow)	32,91

12.4. Mobility in soil

BUTYLAL (2568-90-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,265

Ethylbenzene (100-41-4)	
Ecology - soil	insoluble in water.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Sewage disposal recommendations : Do not discharge into drains or the environment.

Product/Packaging disposal recommendations : Collect all waste in suitable and labelled containers and dispose according to local legislation.

Additional information : Empty the packaging completely prior to disposal. Do not re-use empty containers.

Ecological waste information : Do not discharge the product into the environment.

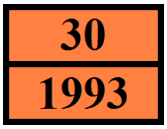
SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.	FLAMMABLE LIQUID, N.O.S.
Transport document description			
UN 1993 FLAMMABLE LIQUID, N.O.S. (contains : xylene (mixture) ; Ethylbenzene), 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (contains : xylene (mixture) ; Ethylbenzene), 3, III	UN 1993 Flammable liquid, n.o.s. (contains : xylene (mixture) ; Ethylbenzene), 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S. (contains : xylene (mixture) ; Ethylbenzene), 3, III
14.3. Transport hazard class(es)			
3	3	3	3
			
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification code (ADR)	:	F1
Special provisions (ADR)	:	274, 601
Limited quantities (ADR)	:	5l
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	T4
Portable tank and bulk container special provisions (ADR)	:	TP1, TP29
Tank code (ADR)	:	LGBF
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V12
Special provisions for carriage - Operation (ADR)	:	S2
Hazard identification number (Kemler No.)	:	30
Orange plates	:	
Tunnel restriction code (ADR)	:	D/E
EAC code	:	•3Y

Transport by sea

Special provisions (IMDG)	:	223, 274, 955
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	LP01, P001
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T4
Tank special provisions (IMDG)	:	TP1, TP29
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-E
Stowage category (IMDG)	:	A

Air transport

PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y344
PCA limited quantity max net quantity (IATA)	:	10L
PCA packing instructions (IATA)	:	355
PCA max net quantity (IATA)	:	60L
CAO packing instructions (IATA)	:	366
CAO max net quantity (IATA)	:	220L
Special provisions (IATA)	:	A3
ERG code (IATA)	:	3L

Rail transport

Classification code (RID)	:	F1
Special provisions (RID)	:	274, 601
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T4
Portable tank and bulk container special provisions (RID)	:	TP1, TP29
Tank codes for RID tanks (RID)	:	LGBF
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W12
Colis express (express parcels) (RID)	:	CE4

Hazard identification number (RID) : 30

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Detergent Regulation (EC 648/2004)

Labelling of contents	
Component	**%**
aromatic hydrocarbons	≥30%
aliphatic hydrocarbons, cationic surfactants	<5%

Seveso Directive (Disaster Risk Reduction)

Seveso III Part I (Categories of dangerous substances)	Qualifying quantity (tonnes)	
	Lower-tier	Upper-tier
P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b	5000	50000

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Austria

Ordinance on Flammable Liquids (VbF) : Auto detect

France

Occupational diseases	
Code	Description
RG 4 BIS	Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).
Override matching entry (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : xylene (mixture) is listed

Denmark

Class for fire hazard : Class II-1
Store unit : 5 liter
Classification remarks : R10 <H226;H304;H312;H315;H319;H332;H335;H373;H412>; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with it.
If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers. The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Switzerland

Storage class (LK) : LK 3 - Flammable liquids

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1

Full text of H- and EUH-statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
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.
H373	May cause damage to organs (central nerve, kidneys, liver) through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.