

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: TX70800.02 Issue date: 10/08/2021 Revision date: 15/11/2023 Version: 2.0

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

1.1. Product identifier

Product form Product name Product code : Mixture : 77 0005 0250 - CLEAN CATALYST

: 77 0005 0250

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

1.2.1. Relevant identified uses

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

77 Lubricants B.V. NL– 1761 JA The Netherlands T +31 (0)78 6527652 technical@77lubricants.nl - www.77lubricants.nl

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
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	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008	[CLP]
Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 2	H361d
Specific target organ toxicity – Single exposure, Category 3,	H336
Narcosis	
Specific target organ toxicity - Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard,	H411
Category 2	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Suspected of damaging the unborn child. (inhalation). May cause damage to organs (central nervous system) through prolonged or repeated exposure (inhalation). May cause drowsiness or dizziness. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

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2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS07 GHS08 GHS09 Signal word (CLP) : Danger Hazard statements (CLP) : H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H361d - Suspected of damaging the unborn child. H373 - May cause damage to organs (central nervous system) through prolonged or repeated exposure (if inhaled). H411 - Toxic to aquatic life with long lasting effects. : P201 - Obtain special instructions before use. Precautionary statements (CLP) P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokina P243 - Take action to prevent static discharges. P280 - Wear protective gloves, protective clothing, eye protection. P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P273 - Avoid release to the environment. P352 - Wash with plenty of soap and water. P391 - Collect spillage. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH 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]
Toluene substance with national workplace exposure limit(s) (AT, DE, DK, FI, FR, GB, NL, SE, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 REACH-no: 01-2119471310- 51	≥ 25 – < 45	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Naphtha (petroleum), hydrotreated heavy substance with national workplace exposure limit(s) (CH); substance with a Community workplace exposure limit	CAS-No.: 64742-48-9 EC-No.: 265-150-3 EC Index-No.: 649-327-00-6	≥ 25 – < 45	Carc. 1B, H350 Muta. 1B, H340 Asp. Tox. 1, H304
Propan-2-ol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0	≥ 15 – < 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Acetone substance with national workplace exposure limit(s) (DE, ES, FR, GB, IT, NL, PT); substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8	≥ 15 – < 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Heptane substance with national workplace exposure limit(s) (NL); substance with a Community workplace exposure limit	CAS-No.: 142-82-5 EC-No.: 205-563-8 EC Index-No.: 601-008-00-2	≥1-<5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Xylene substance with national workplace exposure limit(s) (DE, ES, FR, GB, IT, NL); 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	≥1-<3	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315

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 First-aid measures after inhalation First-aid measures after skin contact	 Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact First-aid measures after ingestion	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effects,	, both acute and delayed
Symptoms/effects Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 May cause drowsiness or dizziness. Irritation. Repeated exposure may cause skin dryness or cracking. Eye irritation. Risk of lung oedema.

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 Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a water jet since it may cause the fire to spread.

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5.2. Special hazards arising from the substance or mixture		
Fire hazard Hazardous decomposition products in case of fire	Highly flammable liquid and vapour.Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust, fume, gas, mist, spray, vapours. Avoid contact with skin and eyes.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		

Avoid release to the environment.	
6.3. Methods and material for contain	ment and cleaning up
For containment Methods for cleaning up	 Collect spillage. Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4 Reference to other sections	

For further information refer to section 13.

6.2. Environmental precautions

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
J	 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, gas, fume, mist, spray, vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions Incompatible products	 Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Oxidizing agent. Strong acids. > 5 - < 40 °C 	
7.3. Specific end use(s)		

No additional information available

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SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
8.1.1 National occupational exposure and biological limit values		
Toluene (108-88-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Toluene	
IOEL TWA	192 mg/m³	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	384 mg/m³	
IOEL STEL [ppm]	100 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
United Kingdom - Occupational Exposure Limits	·	
WEL TWA (OEL TWA) [1]	191 mg/m³	
WEL STEL (OEL STEL)	384 mg/m ³	
Naphtha (petroleum), hydrotreated heavy (64742-48-9)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	White spirit Type 3	
IOEL TWA	116 mg/m ³	
IOEL TWA [ppm]	20 ppm	
IOEL STEL	290 mg/m³	
IOEL STEL [ppm]	50 ppm	
Remark	Skin. (Year of adoption 2007)	
Regulatory reference	SCOEL Recommendations	
Acetone (67-64-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Acetone	
IOEL TWA	1210 mg/m ³	
IOEL TWA [ppm]	500 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	1210 mg/m³	
WEL TWA (OEL TWA) [2]	500 ppm	
WEL STEL (OEL STEL)	3620 mg/m³	
WEL STEL (OEL STEL) [ppm]	1500 ppm	
Heptane (142-82-5)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	n-Heptane	
IOEL TWA	2085 mg/m³	

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Heptane (142-82-5)		
IOEL TWA [ppm]	500 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Xylene (1330-20-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Xylene, mixed isomers, pure	
IOEL TWA	221 mg/m³	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	442 mg/m³	
IOEL STEL [ppm]	100 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	220 mg/m³	
WEL TWA (OEL TWA) [2]	50 ppm	
WEL STEL (OEL STEL)	441 mg/m³	
WEL STEL (OEL STEL) [ppm]	100 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

Appropriate engineering controls: Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection			
Type Field of application Characteristics Standard			Standard
Safety glasses	Droplet	clear	EN 166

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8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	5 (> 240 minutes)		2 (< 1.5), 3 (> 0.65)	EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Respiratory protection			
Device	Filter type	Condition	Standard
Gas mask		Vapour protection, Gas protection	EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 155 °C @760 mmHg
Flammability	: Highly flammable liquid and vapour.
Lower explosion limit	: 1.7 vol % @25°C
Upper explosion limit	: 10 vol % @25°C
Flash point	: -3 °C
Auto-ignition temperature	: 391 °C
Decomposition temperature	: Not available
DH	: Not available
Viscosity, kinematic	: 0.33 mm²/s @40°C
Viscosity, dynamic	: 0.78 cP @20°C
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 67.9 mm Hg @20°C
Vapour pressure at 50°C	: 334 hPa
Density	: Not available
Relative density	: 0.807 @20°C
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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9.2. Other information 9.2.1. Information with regard to physical hazard classes No additional information available 9.2.2. Other safety characteristics Relative evaporation rate (butylacetate=1) : 271.4 25°C **SECTION 10: Stability and reactivity** 10.1. Reactivity Highly flammable liquid and vapour. 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use. 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information				
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008				
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified			
Toluene (108-88-3)				
LD50 oral (rat)	5580 mg/kg bodyweight OECD 401			
LD50 dermal (rabbit)	12124 mg/kg OECD 402			
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	25.7 mg/l/4h			
Naphtha (petroleum), hydrotreated heavy (64742-48-9)				
LD50 oral (rat)	15000 mg/kg			
LD50 dermal (rabbit)	3160 mg/kg			
LC50 inhalation (rat) (mg/l)	6.1 mg/l			
Propan-2-ol (67-63-0)				
LD50 oral (rat)	5000 mg/kg			
LD50 dermal (rabbit)	12.9 g/kg			
LC50 inhalation (rat) (mg/l)	26.2 mg/l 6 HRS			
Acetone (67-64-1)				
LD50 oral (rat)	5800 mg/kg bodyweight			

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Acetone (67-64-1)			
LD50 dermal (rat)	> 15800 mg/kg bodyweight		
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	76 mg/l/4h		
Heptane (142-82-5)			
LD50 oral (rat)	7000 mg/kg		
LD50 dermal (rabbit)	17000 mg/kg		
LC50 inhalation (rat) (mg/l)	> 20 mg/l		
Xylene (1330-20-7)			
LD50 oral	4300 mg/l		
LD50 dermal (rat)	> 1700 mg/kg bodyweight		
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	21.7 mg/l/4h		
	Causes skin irritation.		
	Causes serious eye irritation.		
1 3	Not classified		
6 ,	Not classified		
5	Not classified		
	Suspected of damaging the unborn child.		
STOT-single exposure :	May cause drowsiness or dizziness.		
Toluene (108-88-3)			
STOT-single exposure	May cause drowsiness or dizziness.		
Propan-2-ol (67-63-0)			
STOT-single exposure	May cause drowsiness or dizziness.		
Acetone (67-64-1)			
STOT-single exposure	May cause drowsiness or dizziness.		
Heptane (142-82-5)			
STOT-single exposure	May cause drowsiness or dizziness.		
	May cause damage to organs (central nervous system) through prolonged or repeated exposure (if inhaled).		
Toluene (108-88-3)			
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight/day		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard :	May be fatal if swallowed and enters airways.		
77 0005 0250 - CLEAN CATALYST			
Viscosity, kinematic	0.33 mm²/s @40°C		
Toluene (108-88-3)			
Viscosity, kinematic	0.644 mm²/s @20°C		
11.2. Information on other hazards			

No additional information available

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SECTION 12: Ecological information				
12.1. Toxicity				
Hazardous to the aquatic environment, short–term : (acute)	Toxic to aquatic life with long lasting effects. Not classified Toxic to aquatic life with long lasting effects.			
Toluene (108-88-3)				
LC50 - Fish [1]	5.5 mg/l Oncorhynchus kisutch			
EC50 - Crustacea [1]	3.78 mg/l Ceriodaphnia Dubia			
EC50 72h - Algae [1]	134 mg/l Pseudokirchneriella subcapitata			
NOEC chronic fish	1.39 mg/l 40d			
NOEC chronic crustacea	0.74 mg/l Ceriodaphnia dubia (7d)			
Naphtha (petroleum), hydrotreated heavy (647	742-48-9)			
LC50 - Fish [1]	> 1000 mg/l			
EC50 - Crustacea [1]	> 1000 mg/l			
EC50 72h - Algae [1]	> 1000 mg/l			
Propan-2-ol (67-63-0)				
LC50 - Fish [1]	9640 mg/l			
EC50 - Crustacea [1]	13300 mg/l Daphnia magna			
EC50 72h - Algae [1]	> 1000 mg/l			
Acetone (67-64-1)				
LC50 - Fish [1]	5540 mg/l			
EC50 96h - Algae [1]	7200 mg/l			
NOEC chronic crustacea	1.106 – 2.212 g/l 28d			
Heptane (142-82-5)				
LC50 - Fish [1]	220 mg/l			
EC50 - Crustacea [1]	3.8 mg/l			
EC50 72h - Algae [1]	< 1 mg/l			
Xylene (1330-20-7)				
LC50 - Fish [1]	15.7 mg/l			
EC50 - Crustacea [1]	8.5 mg/l			
12.2. Persistence and degradability				
Toluene (108-88-3)				
Biodegradation	80 %			
	1			

Xylene (1330-20-7)

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12.3. Bioaccumulative potential			
Toluene (108-88-3)	Toluene (108-88-3)		
Bioconcentration factor (BCF REACH)	90		
Partition coefficient n-octanol/water (Log Kow)	2.73 @20°C		
Propan-2-ol (67-63-0)			
Partition coefficient n-octanol/water (Log Pow)	0.05		
Xylene (1330-20-7)			
BCF - Fish [1]	15 – 21		
Bioconcentration factor (BCF REACH)	29		
Partition coefficient n-octanol/water (Log Pow)	3.2		
12.4. Mobility in soil			

No additional information available

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 Additional information HP Code	 Dispose of contents/container in accordance with licensed collector's sorting instructions. Flammable vapours may accumulate in the container. HP3 - "Flammable:" flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; flammable gaseous waste: solid waste which is readily combustible or may cause or contribute to fire through friction; flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; water reactive waste: the waste which, in contact with water, emits flammable gases in dangerous quantities; other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP11 - "Mutagenic:" waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

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n accordance with ADR / IME	-			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber			
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shippin	g name			
FLAMMABLE LIQUID, N.O.S. (contains toluene, in mixture)	FLAMMABLE LIQUID, N.O.S. (contains toluene, ir mixture)	Flammable liquid, n.o.s. (contains toluene, in mixture)	FLAMMABLE LIQUID, N.O.S. (contains toluene, in mixture)	FLAMMABLE LIQUID, N.O.S. (contains toluene, ir mixture)
Transport document descr	iption			
UN 1993 FLAMMABLE LIQUID, N.O.S. (contains toluene, in mixture), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (contains toluene, in mixture), 3, II, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1993 Flammable liquid, n.o.s. (contains toluene, in mixture), 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (contains toluene, in mixture), 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1993 FLAMMABLE LIQUID, N.O.S. (contains toluene, in mixture), 3, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard o	lass(es)		1	I
3	3	3	3	3
14.4. Packing group				
II	II	II	II	II
14.5. Environmental haz	ards			
Dangerous for the environment: Yes			Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information	n available		1	
14.6. Special precaution	- for			
Limited quantities (ADR):11Excepted quantities (ADR):E2Packing instructions (ADR):P00Mixed packing provisions (ADR):MPPortable tank and bulk container instructions (ADR):T7Portable tank and bulk container special provisions:T7(ADR):LGTank code (ADR):LGVehicle for tank carriage:FLTransport category (ADR):2		74, 601, 640D 2 2001, IBC02, R001 P19 7 P1, TP8, TP28 GBF - 2, S20		

Tunnel restriction code (ADR)

: D/E

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EAC code	: •3YE
Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	: 274 : 1 L : E2 : P001 : IBC02 : T7 : TP1, TP28, TP8 : F-E : S-E
Stowage category (IMDG) Air transport PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA)	: B : E2 : Y341 : 1L : 353 : 5L : 364 : 60L : A3 : 3H
Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN)	: F1 : 274, 601, 640D : 1 L : E2 : T : PP, EX, A : VE01 : 1
Rail transport Classification code (RID) Special provisions (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions (RID)	 F1 274, 601, 640D 1L E2 P001, IBC02, R001 MP19 T7 TP1, TP8, TP28
Tank codes for RID tanks (RID) Transport category (RID) Colis express (express parcels) (RID) Hazard identification number (RID)	: LGBF : 2 : CE7 : 33

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)

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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)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors) ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Combined	Combined Nomenclature code for mixture without
		Nomenclature	constituents which would determine classification under
		code (CN)	another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-usedhome-made-explosives_en

Drug Precursors Regulation (273/2004)

Contains 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)

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Toluene		108-88-3	2902 30 00	Category 3		Annex I
Acetone		67-64-1	2914 11 00	Category 3		Annex I

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	

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Abbreviations and acronyms:		
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

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	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Asp. Tox. 1	Aspiration hazard, Category 1	
Carc. 1B	Carcinogenicity, Category 1B	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	

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Full text of H- and EUH-statements:		
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.	
H336	May cause drowsiness or dizziness.	
H340	May cause genetic defects.	
H350	May cause cancer.	
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
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.	
Muta. 1B	Germ cell mutagenicity, Category 1B	
Repr. 2	Reproductive toxicity, Category 2	
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, Narcosis	

The classification complies with

: ATP 12

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.