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

1.1. Product identifier

PT 750 PLUS

Further trade names

Activator
Aktivator
Activateur
Activador

UFI: WPYP-85MW-14HD-ARQF

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

Use of the substance/mixture

Glass Activator

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name:	PMA/TOOLS GmbH
Street:	Siemensring 42
Place:	D-47877 Willich - Germany
Telephone:	+49 2154 922230
E-mail:	info@pma-tools.de
Contact person:	Labor
E-mail:	msds@pma-tools.de (Please DO NOT use for requesting Safety Data Sheets.)
Internet:	www.pma-tools.de
Responsible Department:	Laboratory

1.4. Emergency telephone number:

Telephone number of the company in case of emergencies (24 h):
+49 (0) 700 / 24 112 112 (PMR)
+1 872 5888271 (PMR)

Emergency information services / official advisory body:
<UK> National Poisons Information Service (24 h): 0870 600 6266 (UK only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225
Asp. Tox. 1; H304
Skin Irrit. 2; H315
Skin Sens. 1; H317
STOT SE 3; H336
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

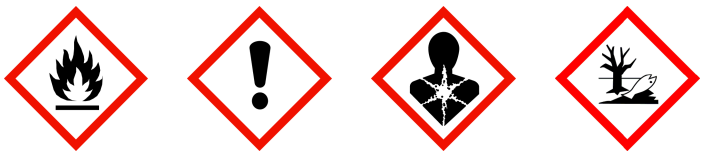
GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane
N-[3-(trimethoxysilyl) propyl] ethylenediamine

Signal word: Danger

Pictograms:



Hazard statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapour.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Extinguishing powder, Carbon dioxide (CO2), Use foam for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Base: Hydrocarbons, aliphatic
Industrial Cleaning Agents

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane			80 - < 100 %
	921-024-6		01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
110-82-7	cyclohexane			5 - < 10 %
	203-806-2	601-017-00-1	01-2119463273-41	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410			
110-54-3	n-hexane			1 - < 3 %
	203-777-6	601-037-00-0	01-2119480412-44	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 2; H225 H361f H315 H336 H373 H304 H411			
1760-24-3	N-[3-(trimethoxysilyl) propyl] ethylenediamine			0,1 - < 1 %
	217-164-6		01-2119970215-39	
	Eye Dam. 1, Skin Sens. 1, STOT SE 3; H318 H317 H335			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
	921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane	80 - < 100 %
	inhalation: LC50 = > 25,2 mg/l (vapours); dermal: LD50 = > 2800 mg/kg; oral: LD50 = > 5840 mg/kg		
110-82-7	203-806-2	cyclohexane	5 - < 10 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		
110-54-3	203-777-6	n-hexane	1 - < 3 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 16000 mg/kg STOT RE 2; H373: >= 5 - 100		
1760-24-3	217-164-6	N-[3-(trimethoxysilyl) propyl] ethylenediamine	0,1 - < 1 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 2295 mg/kg		

Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % aliphatic hydrocarbons.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Never give anything by mouth to an unconscious person or a person with cramps.

After inhalation

Remove casualty to fresh air and keep warm and at rest. If unconscious but breathing normally, place in recovery position and seek medical advice.

After contact with skin

IF ON SKIN: Gently wash with plenty of soap and water.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a physician in any case!
Observe risk of aspiration if vomiting occurs.

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

Following skin contact: erythema (redness).
Vapours may cause drowsiness and dizziness.
May cause sensitization by skin contact.
Following ingestion: Aspiration hazard, Cough, Dyspnoea, Vomiting.

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

See SECTION 4: First aid measures
May be harmful if swallowed and enters airways. Pneumonia, Pulmonary oedema. Do NOT induce vomiting.
Call a physician in any case!

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Suitable extinguishing media: Carbon dioxide (CO_2), Foam, Water spray jet, Extinguishing powder
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet (Contains: Solvent)

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Gases/vapours, toxic

5.3. Advice for firefighters

Wear personal protection equipment (refer to section 8). In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment.
Avoid contact with skin, eyes and clothes.
Remove persons to safety.
Special danger of slipping by leaking/spilling product.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13

6.4. Reference to other sections

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Remove all sources of ignition.
Provide earthing of containers, equipment, pumps and ventilation facilities.
Use explosion-proof electrical equipment.
Use only antistatically equipped (spark-free) tools.
Take action to prevent static discharges.

Advice on general occupational hygiene

Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.
When using do not eat or drink. Wash hands and face before breaks and after work and take a shower if necessary. Keep away from food, drink and animal feedingstuffs.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide adequate ventilation as well as local exhaustion at critical locations.
Store in a cool dry place.
Keep away from heat.
Protect from sunlight.
storage temperature: 15-25°C

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
110-82-7	Cyclohexane	100	350		TWA (8 h)	WEL
		300	1050		STEL (15 min)	WEL
110-54-3	n-Hexane	20	72		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane			
Worker DNEL,		dermal	systemic	773 mg/kg bw/day
Worker DNEL,		inhalation	systemic	2035 mg/m³
Consumer DNEL,		dermal	systemic	699 mg/kg bw/day
Consumer DNEL,		inhalation	systemic	608 mg/m³
Consumer DNEL,		oral	systemic	699 mg/kg bw/day
110-82-7	cyclohexane			
Worker DNEL, acute		inhalation	local	700 mg/m³
Worker DNEL, acute		inhalation	systemic	700 mg/m³
Worker DNEL, long-term		inhalation	systemic	700 mg/m³
Worker DNEL, long-term		inhalation	local	700 mg/m³
Worker DNEL, long-term		dermal	systemic	2016 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	412 mg/m³
Consumer DNEL, acute		inhalation	local	412 mg/m³
Consumer DNEL, long-term		dermal	systemic	1186 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	59,4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	206 mg/m³
Consumer DNEL, long-term		inhalation	local	206 mg/m³
110-54-3	n-hexane			
Consumer DNEL,		inhalation	systemic	16 mg/m³
Worker DNEL,		dermal	systemic	11 mg/kg bw/day
Consumer DNEL,		dermal	systemic	5,3 mg/kg bw/day
Worker DNEL,		inhalation	systemic	75 mg/m³
Consumer DNEL,		oral	systemic	4 mg/kg bw/day
1760-24-3	N-[3-(trimethoxysilyl) propyl] ethylenediamine			
Worker DNEL, long-term		inhalation	systemic	35,3 mg/m³
Worker DNEL, long-term		dermal	systemic	5 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,7 mg/m³
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	17 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
110-82-7	cyclohexane	
Freshwater		0,207 mg/l
Freshwater (intermittent releases)		0,207 mg/l
Marine water		0,207 mg/l
Freshwater sediment		16,68 mg/kg
Marine sediment		16,68 mg/kg
Micro-organisms in sewage treatment plants (STP)		3,24 mg/l
Soil		3,38 mg/kg
110-54-3	n-hexane	
1760-24-3	N-[3-(trimethoxysilyl) propyl] ethylenediamine	
Freshwater		0,062 mg/l
Freshwater (intermittent releases)		0,62 mg/l
Marine water		0,0062 mg/l
Freshwater sediment		0,22 mg/kg
Marine sediment		0,022 mg/kg
Micro-organisms in sewage treatment plants (STP)		25 mg/l
Soil		0,0085 mg/kg

8.2. Exposure controls




Appropriate engineering controls

Use only outdoors or in a well-ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. (EN 166)

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Replace when worn.
Suitable gloves type NBR (Nitrile rubber) / EN ISO 374
Wearing time with permanent contact: > 30 Min. Index No. 2
Wearing time with occasional contact (splashes): > 480 Index No. 6
Thickness of the glove material: >= 0,7 mm

Skin protection

Use personal protection equipment. (EN 14605 / EN 13982)
When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. 89/686/EWG.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Combination filtering device ABEK-P2 (EN 14387)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	clear, colourless
Odour:	like: Petrol
Odour threshold:	No data available

		Test method
Changes in the physical state		
Melting point/freezing point:	-50 °C	
Boiling point or initial boiling point and boiling range:	90 °C	
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
Flash point:	13 °C	Abel-Pensky
Flammability		
Solid/liquid:	Combustible liquid.	
Explosive properties		
No data available		
Lower explosion limits:	1,7 vol. %	
Upper explosion limits:	not applicable	
Auto-ignition temperature:	250 °C	
Decomposition temperature:	not applicable	
pH-Value:	not applicable	
Viscosity / dynamic: (at 20 °C)	0,5 mPa·s	Brookfield
Viscosity / kinematic: (at 20 °C)	1,3 mm²/s	
Water solubility: (at 20 °C)	practically insoluble	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not applicable	
Vapour pressure: (at 20 °C)	62 hPa	
Vapour pressure: (at 50 °C)	250 hPa	
Density (at 20 °C):	0,73 g/cm³	
Bulk density:	not determined	
Relative vapour density: (at 20 °C)	1,1	
Particle characteristics:	not applicable	

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate: not determined

Further Information

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidising agent

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

SECTION 10: Stability and reactivity

10.6. Hazardous decomposition products

After intended use: No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
Contains Amines. May produce an allergic reaction.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane					
	oral	LD50 mg/kg	> 5840	Rat		
	dermal	LD50 mg/kg	> 2800	Rat		
	inhalation (4 h) vapour	LC50 mg/l	> 25,2	Rat		
110-82-7	cyclohexane					
	oral	LD50 mg/kg	> 5000	Rat		OECD 401
	dermal	LD50 mg/kg	> 2000	Rabbit		OECD 402
110-54-3	n-hexane					
	oral	LD50 mg/kg	16000	Rat		OECD 401
	dermal	LD50 mg/kg	>2000	Rabbit		
1760-24-3	N-[3-(trimethoxysilyl) propyl] ethylenediamine					
	oral	LD50 mg/kg	2295	Rat		
	dermal	LD50 mg/kg	>2000	Rat		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (N-[3-(trimethoxysilyl) propyl] ethylenediamine)

May cause sensitization by skin contact.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other information

No data available

SECTION 12: Ecological information

12.1. Toxicity

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane						
	Acute fish toxicity	LL50	11,4 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		OECD 203
	Acute algae toxicity	ErC50	> 30 - 100 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Crustacea toxicity	NOEC	0,17 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
110-82-7	cyclohexane						
	Acute fish toxicity	LC50	4,53 mg/l	96 h	Pimephales promelas (fathead minnow)		OECD 403
	Acute algae toxicity	ErC50	9,317 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50	0,9 mg/l	48 h			OECD 202
	Algae toxicity	NOEC	0,95 mg/l	3 d	Pseudokirchneriella subcapitata		OECD 201
110-54-3	n-hexane						
	Acute fish toxicity	LC50	>1-10 mg/l	96 h			OECD 203
	Acute algae toxicity	ErC50	>1-10 mg/l				OECD 201
	Acute crustacea toxicity	EC50	2,1 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Acute bacteria toxicity	EC50	>1-10 mg/l ( )				OECD 209
1760-24-3	N-[3-(trimethoxysilyl) propyl] ethylenediamine						
	Acute fish toxicity	LC50	168 mg/l	96 h	Pimephales promelas (fathead minnow)		OECD 203
	Acute algae toxicity	ErC50	8,8 mg/l	96 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50	87,4 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Acute bacteria toxicity	EC50	435 mg/l ( )	3 h			OECD 209

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5 % n-hexane			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	98%	28	
	Readily biodegradable (according to OECD criteria).			
110-82-7	cyclohexane			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	77 %	28	
	Readily biodegradable (according to OECD criteria).			
110-54-3	n-hexane			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	81 %	28	
	Readily biodegradable (according to OECD criteria).			
1760-24-3	N-[3-(trimethoxysilyl) propyl] ethylenediamine			
	OECD 301A	50 %		

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
110-82-7	cyclohexane	3,44
110-54-3	n-hexane	4
1760-24-3	N-[3-(trimethoxysilyl) propyl] ethylenediamine	-1,67

BCF

CAS No	Chemical name	BCF	Species	Source
110-82-7	cyclohexane	167	Pimephales promelas (fathead minnow)	QSAR

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Send to a hazardous waste incinerator facility under observation of official regulations.
The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented.
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Recommendation: EAK 080409

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 3295
14.2. UN proper shipping name:	HYDROCARBONS, LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Classification code:	F1
Special Provisions:	640C
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 3295
14.2. UN proper shipping name:	HYDROCARBONS, LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Classification code:	F1
Special Provisions:	640C
Limited quantity:	1 L
Excepted quantity:	E2

Marine transport (IMDG)

14.1. UN number or ID number:	UN 3295
14.2. UN proper shipping name:	HYDROCARBONS, LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2

EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3295

14.2. UN proper shipping name: HYDROCARBONS, LIQUID, N.O.S.

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3

Special Provisions: A3 A324

Limited quantity Passenger: 1 L

Passenger LQ: Y341

Excepted quantity: E2

IATA-packing instructions - Passenger: 353

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 364

IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: Hydrocarbons, liquid, n.o.s.

14.6. Special precautions for user

Land transport (ADR/RID) Special Provisions: 640 D

Tunnel restriction code: (D/E)

Transport as "limited quantity" according to chapter 3.4 ADR/RID / Special Provisions: 640D

Inland waterway craft (ADN) / Special Provisions: 640D

Warning: Combustible liquid.

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 57, Entry 75

Directive 2010/75/EU on industrial emissions: 98,9 %

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Berufsgenossenschaftliche Informationen (DGUV-Informationen): BGI 621 Solvent

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s):
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
ATE: Acute Toxicity Estimate.
AwSV: Anlagenverordnung wassergefährdender Stoffe (Regulation on facilities handling substances dangerous to water).
BGI: Berufsgenossenschaftliche Informationen (trade association information).
BGR: Berufsgenossenschaftliche Regeln (trade association regulation).
CAS: Chemical Abstracts Service.
CEN: Comité Européen de Normalisation European (Committee for Standardization).
CLP: Classification, Labelling and Packaging of substances and mixtures (REGULATION (EC) No 1272/2008).
DIN: Deutsches Institut für Normung (German institute for standardization).
DMEL: Derived Minimum Effect Level.
DNEL: Derived No Effect Level.
EC: European Community.
EC50: Half maximal effective concentration.
ECHA: European Chemicals Agency.
EG: Europäische Gemeinschaft (European Community).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norms.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA-DGR: International Air Transport Association - Dangerous Goods Regulations.
IBC: Intermediate Bulk Container.
IC50 / ErC50: Inhibitory concentration, 50 %.
ICAO-TI: International Civil Aviation Organization - Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Code for Dangerous Goods.
ISO: International Organization for Standardization.
IUPAC: International Union for Pure and Applied Chemistry.
LC50: Lethal concentration, 50 %.
LD50: Lethal dose, 50 %.
log Kow (Pow): Partition coefficient n-octanol/water.
LQ: Limited Quantities.
MARPOL: International Convention for the Prevention of Marine Pollution from Ships.
OECD: Organisation for Economic Co-operation and Development.
PBT: persistent, bioaccumulative and toxic.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006).
RID: Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulation concerning the International Carriage of Dangerous Goods by Rail).
SVHC: Substances of Very High Concern.
STOT - RE: Specific Target Organ Toxicity - Repeated Exposure.
STOT - SE: Specific Target Organ Toxicity - Single Exposure.
TRGS: Technische Regel für Gefahrstoffe (technical guideline for the handling of hazardous materials).

UFI: Unique Formula Identifier.
UN: Untited Nations.
VOC: Volatile organic compounds.
vPvB: very persistent and very bioaccumulative.
WGK: Wassergefährdungsklasse (water hazard class).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Asp. Tox. 1; H304	
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	
STOT SE 3; H336	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
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.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)