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

· **1.1 Product identifier**

· **Trade name: TEREBOR**
· **UFI:** SU80-10TV-500P-AVPR
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
· **Application of the substance / the mixture** Tapping, drilling and machining fluid

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
MOLYDAL SA
221 Rue Paul Langevin
60744 SAINT MAXIMIN - FRANCE
TEL : + 33 (0)3 44 61 76 76
FAX : + 33 (0)3 44 25 17 78
www.molydal.com

· **Further information obtainable from:**
regulatory department
molydal@molydal.com
· **1.4 Emergency telephone number:** National emergency phone number : +36 80 20 11 99

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**


environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

Lact. H362 May cause harm to breast-fed children.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
· **Hazard pictograms**


GHS09

· **Signal word** Warning

· **Hazard-determining components of labelling:**
alkanes, C14-17, chloro
· **Hazard statements**
H362 May cause harm to breast-fed children.
H410 Very toxic to aquatic life with long lasting effects.
· **Precautionary statements**
P260 Do not breathe dusts or mists.
P263 Avoid contact during pregnancy and while nursing.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Additional information:**
EUH066 Repeated exposure may cause skin dryness or cracking.

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· ***2.3 Other hazards***
· ***Results of PBT and vPvB assessment***

· ***PBT:***	
85535-85-9	*alkanes, C14-17, chloro*

· ***vPvB:***	
85535-85-9	*alkanes, C14-17, chloro*

SECTION 3: Composition/information on ingredients

· ***3.2 Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additions.*

· ***Dangerous components:***

CAS: 85535-85-9 *EINECS: 287-477-0* *Reg.nr.: 01-2119519269-33-xxxx*	*alkanes, C14-17, chloro* *Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Lact., H362, EUH066* *PBT; vPvB*	*25-50%*
EC number: 920-901-0 *Reg.nr.: 01-2119456810-40-xxxx*	*Hydrocarbons, C11-C13, isoalkanes, <2% aromatics* *Alternative CAS numbers: 64742-48-9, 90622-58-5* *Asp. Tox. 1, H304, EUH066*	*10-25%*

· ***Additional information***
The benzene content of petroleum solvents is less than 0.1%.
For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· ***4.1 Description of first aid measures***
· ***After inhalation***
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
· ***After skin contact***
Immediately wash with water and soap and rinse thoroughly.
Immediately remove all soiled and contaminated clothing
· ***After eye contact***
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· ***After swallowing*** *Do not induce vomiting; call for medical help immediately.*
· ***4.2 Most important symptoms and effects, both acute and delayed*** *No further relevant information available.*
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

SECTION 5: Firefighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents*** *CO2, powder or water spray. Fight larger fires with water spray.*
· ***For safety reasons unsuitable extinguishing agents*** *Water with full jet.*
· ***5.2 Special hazards arising from the substance or mixture***
In case of fire, the following can be released:
Carbon monoxide (CO)
Hydrogen chloride (HCl)
Carbon dioxide (CO2)
· ***5.3 Advice for firefighters***
· ***Protective equipment:*** *Wear self-contained respiratory protective device.*
· ***Additional information***
Cool endangered receptacles with water spray.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Stop leak if safe to do so.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
· **For non-emergency personnel**
Ensure adequate ventilation
Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.
Seal the leak if it can be done safely.
· **For emergency responders** *Wear safety equipment. Remove unprotected persons.*
· **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **6.3 Methods and material for containment and cleaning up:**
Absorb liquid components with liquid-binding material.
· **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
· **Information about fire - and explosion protection:** *Protect from heat.*

· **Handling**
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Requirements to be met by storerooms and receptacles:** *Keep only in the original container*
· **Further information about storage conditions:** *Store in cool, dry conditions in well sealed receptacles.*
· **Recommended storage temperature:** *0 ~ 25°C*
· **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**
· **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**		
85535-85-9 alkanes, C14-17, chloro		
Dermal	*DNEL*	*11.5 mg/Kg (Workers -Local effect - Long term)* *Travailleurs - Effet systémique - Long terme*
Inhalative	*DNEL*	*1.6 mg/m3 (Workers - Systemic effect - Long term)* *Travailleurs - Effet systémique - Long terme*

· **PNECs**	
85535-85-9 alkanes, C14-17, chloro	
PNEC (freshwater)	*0.001 mg/L*
PNEC (Marine)	*0.0002 mg/L*

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PNEC (sediment freshwater)	5 mg/Kg
PNEC (sediment marine)	1 mg/Kg
PNEC (soil)	10.5 mg/Kg
PNEC (Water-treatment plant)	80 mg/L

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**
· **Appropriate engineering controls** Ensure good ventilation/exhaustion at the workplace.
· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures are to be adhered to when handling chemicals.
· **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
Short term filter device:
Filter A/P2.
· **Hand protection**
Protective gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **For the permanent contact gloves made of the following materials are suitable:** Nitrile rubber, NBR
· **Eye/face protection** Goggles recommended during refilling.
· **Body protection:** Protective work clothing.
· **Environmental exposure controls** Do not allow product to reach sewage system or any water course.

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	Liquid
· **Colour:**	Blue
· **Odour:**	characteristic
· **Melting point/freezing point:**	undetermined
· **Boiling point or initial boiling point and boiling range**	undetermined
· **Flammability**	Product is not flammable.
· **Lower and upper explosion limit**	
· **Lower:**	not applicable
· **Upper:**	Not determined.
· **Flash point:**	62 °C (ISO 2719)
· **Ignition temperature:**	Product is not selfigniting.
· **Decomposition temperature:**	Not determined.
· **pH**	Mixture is non-soluble (in water).
· **Viscosity:**	
· **Kinematic viscosity at 40 °C**	22 mm²/s (ISO 3104)
· **dynamic:**	Not determined.
· **Solubility**	
· **Water:**	Not miscible or difficult to mix
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Vapour pressure:**	Not determined.
· **Vapour pressure:**	
· **Density at 20 °C:**	1.03 g/cm³ (NFT 30-020)

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· **Vapour density**	Not determined.
· **Particle characteristics**	Not applicable.
· **9.2 Other information**	
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Solvent content:**	
· **Volatile Organic Compound :**	20.00 %

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No specific data available for this product
· **10.2 Chemical stability** Stable under normal conditions of use
· **10.3 Possibility of hazardous reactions** No dangerous reactions known
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

85535-85-9 alkanes, C14-17, chloro

Oral	LD50	>4,000 mg/kg (Rat)
Dermal	LD50	4,000 mg/kg (Rat)
Inhalative	LC50/4 h	>48,170 mg/l (Rat)

· **Skin corrosion/irritation**
Frequent or prolonged contact can degrease and dry out the skin, leading to discomfort or dermatitis.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **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** May cause harm to breast-fed children.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

· **Other information** No further relevant information available.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

85535-85-9 alkanes, C14-17, chloro

LE50 (algues) 72h	0.006 mg/L (Daphnia magna)

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

LL50 (invertébrés) 48h	1,000 mg/L (Oncorhynchus mykiss) (Données relatives à des produits équivalents)
LE50 (algues) 72h	1,000 mg/L (Daphnia magna) (Données relatives à des produits équivalents)

· **12.2 Persistence and degradability** Not easily biodegradable
· **12.3 Bioaccumulative potential** No further relevant information available.

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· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

85535-85-9	alkanes, C14-17, chloro

· **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Ecotoxical effects:** Very toxic for fish

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.

SECTION 14: Transport information

· **14.1 UN number or ID number**
· **ADR, IMDG, IATA** UN3082

· **14.2 UN proper shipping name**
· **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alkanes, C14-17, chloro)
· **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alkanes, C14-17, chloro), MARINE POLLUTANT
· **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alkanes, C14-17, chloro)

· **14.3 Transport hazard class(es)**

· **ADR**

· **Class** 9 (M6) Miscellaneous dangerous substances and articles.
· **Label** 9

· **IMDG, IATA**

· **Class** 9 Miscellaneous dangerous substances and articles.
· **Label** 9

· **14.4 Packing group**
· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:** Product contains environmentally hazardous substances: alkanes, C14-17, chloro
· **Marine pollutant:** Yes
Symbol (fish and tree)
· **Special marking (ADR):** Symbol (fish and tree)
· **Special marking (IATA):** Symbol (fish and tree)

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· **14.6 Special precautions for user**	Warning: Miscellaneous dangerous substances and articles.
· **Hazard identification number (Kemler code):**	90
· **EMS Number:**	F-A,S-F
· **Stowage Category**	A
· **14.7 Maritime transport in bulk according to IMO instruments**	The product is not transported in bulk
· **ADR**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **Transport category**	3
· **Tunnel restriction code**	(-)
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKANES, C14-17, CHLORO), 9, III

SECTION 15: Regulatory information

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

· **Substances of very high concern (SVHC) according to REACH, Article 57**

85535-85-9	alkanes, C14-17, chloro

· **List of substances subject to authorisation (ANNEX XIV)**

Do not contain any substance submitted to authorization according to annex XIV

· **TSCA (Toxic Substances Control Act): (Substances not listed)**

· **Domestic Substances List - Non Domestic Substances List: (Substances not listed)**

All ingredients are listed.

· **Korean Existing Chemical Inventory: (Substances not listed)**

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics

· **AICS - Australian Inventory of Chemical Substances: (Substances not listed)**

All ingredients are listed.

· **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Seveso category** E1 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

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· ***LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)***

· ***Waterhazard class:*** *Generally not hazardous for water.*
· ***15.2 Chemical safety assessment:*** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· ***Relevant phrases***
H304 May be fatal if swallowed and enters airways.
H362 May cause harm to breast-fed children.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

· ***Abbreviations and acronyms:***
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
ISO: International Organisation for Standardisation
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
TLV: Threshold Limit Value
IBC : intermediate bulk container
EuPCS : European product classification system
GB CLP : Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures
MARPOL : International Convention for the Prevention of pollution from Ships
OEL : Occupational Exposure Limits
Lact.: Reproductive toxicity – effects on or via lactation
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· **** Data compared to the previous version altered.***