

SAFETY DATA SHEET**TECTYL 511-M****1. Identification of the substance/preparation and of the company/undertaking**

Product name : TECTYL 511-M
Material Uses : Industrial applications: Coating. Corrosion inhibitor.

Manufacturer / Supplier :

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 Netherlands

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Chemical name*	CAS No.	%	EC Number	Classification
Low boiling point hydrogen treated naphtha; heavy	64742-48-9	40-50	265-150-3	R10 Xn; R65 R66
Baseoil; distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	20-30	265-155-0	
2-Butoxyethanol	111-76-2	1-5	203-905-0	Xn; R20/21/22 Xi; R36/38
See Section 16 for the full text of the R Phrases declared above				

* Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification :

R10- Flammable.
 R66- Repeated exposure may cause skin dryness or cracking.

Effects and symptoms

Inhalation : Slightly hazardous in case of inhalation.
Ingestion : Slightly hazardous in case of ingestion.
Skin contact : Defatting to the skin. Repeated exposure may cause skin dryness or cracking.
Target Organs : Contains material which causes damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

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4. First-aid measures

First-Aid measures

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.
- Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention.

5. Fire-fighting measures

Extinguishing Media

- Suitable** : SMALL FIRE: Use dry chemical powder or CO₂.
LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
- Hazardous thermal (de)composition products** : These products are carbon oxides (CO, CO₂) and water, sulphur oxides (SO₂, SO₃, etc.). Some metallic oxides.
- Protection of fire-fighters** : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

- Personal Precautions** : Splash goggles. Full suit. Vapour respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.
- Environmental precautions and cleanup methods** : Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other noncombustible material. Use water spray to reduce vapours. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.
- Storage** : Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Store between 10 to 35°C (50 to 95°F).
- Packaging materials**
- Recommended use** : Use original container.

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8. Exposure controls/personal protection

Engineering measures : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Occupational Exposure Limits

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
Low boiling point hydrogen treated naphtha; heavy	RPC (Europe, 2000). Notes: Supplier's information TWA: 1200 mg/m ³ 8 hour(s).
Baseoil; distillates (petroleum), hydrotreated heavy naphthenic	EH40 (Europe). STEL: 10 mg/m ³ 15 minute(s). Form: Mist STEL: 5 mg/m ³ 8 hour(s). Form: Mis
2-Butoxyethanol	EU OEL (Europe, 2000). skin Notes: Indicative STEL: 246 mg/m ³ 15 minute(s). STEL: 50 ppm 15 minute(s). TWA: 98 mg/m ³ 8 hour(s). TWA: 20 ppm 8 hour(s)

Personal protective equipment

- Respiratory system** : Wear appropriate respirator when ventilation is inadequate. Vapour respirator.
- Skin and body** : Lab coat.
- Hands** : Impervious gloves.
- Eyes** : Safety glasses.

9. Physical and chemical properties

- Physical state** : Liquid.
- Colour** : Amber.
- Odour** : Not available.
- Boiling point** : The lowest known value is 168 to 171°C (335 to 340°F) (2-Butoxyethanol).
- Melting point** : May start to solidify at <-20°C (-4°F) based on data for: Low boiling point hydrogen treated naphtha; heavy.
- Density** : 0.85 g/cm³ (15°C / 59°F)
- Vapour density** : >1 (Air = 1)
- Vapour pressure** : The highest known value is 0.25 kPa (1.87 mmHg) (at 20°C) (Low boiling point hydrogen treated naphtha; heavy).
- Evaporation Rate** : The highest known value is <1 (Petrolatum (petroleum), oxidized (Calcium salt)) .
- Solubility** : Insoluble in cold water.
- pH** : Not applicable.
- Flash point** : Closed cup: 45°C (113°F).(Pensky-Martens.)
- Autoignition temperature** : The lowest known value is >200°C (392°F) (Low boiling point hydrogen treated naphtha; heavy).
- Lower explosion limit** : The greatest known range is LOWER: 0.6% UPPER: 7% (Low boiling point hydrogen treated naphtha; heavy)
- Viscosity** : Dynamic: The highest known value is 0.96 cP (Low boiling point hydrogen treated naphtha; heavy)
Kinetic: >20 cSt
Kinetic (40C): >20 cSt

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10. Stability and reactivity

- Stability** : The product is stable.
- Materials to avoid** : Reactive with oxidizing agents.
- Hazardous decomposition products** : These products are carbon oxides (CO, CO₂) and water, sulphur oxides (SO₂, SO₃, etc.). Some metallic oxides.

11. Toxicological information

Acute toxicity

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Low boiling point hydrogen treated naphtha; heavy	LD50	>2000 mg/kg	Oral	Rat
	LD50	>2000 mg/kg	Dermal	Rabbit
	LC50	>5000 mg/m ³ (8 hours)	Inhalation	Rat
Baseoil; distillates (petroleum), hydrotreated heavy naphthenic	LD50	>5000 mg/kg	Oral	Rat
	LD50	>2000 mg/kg	Dermal	Rabbit
2-Butoxyethanol	LD50	470 mg/kg	Oral	Rat
	LD50	300 mg/kg	Oral	Rabbit
	LD50	1200 mg/kg	Oral	Guinea pig
	LD50	220 mg/kg	Dermal	Rabbit

- Chronic toxicity** : Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
- Carcinogenic effects** : Not available.
- Mutagenic Effects** : Not available.
- Reproduction toxicity** : Not available.
- Teratogenic effects** : Not available.

12. Ecological information

Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Low boiling point hydrogen treated naphtha; heavy Baseoil; distillates (petroleum), hydrotreated heavy naphthenic	Fish (LC50)	96 hours	>100 mg/l
	Fish (LC50)	96 hours	>1000 mg/l
	Daphnia (EC50)	48 hours	>1000 mg/l
2-Butoxyethanol	Algae (IC50)	72 hours	>1000 mg/l
	Lepomis macrochirus (LC50)	96 hours	1490 mg/l

<u>Ingredient Name</u>	<u>Persistence/degradability</u>				
	<u>BOD₅</u>	<u>COD</u>	<u>ThOD</u>	<u>Aquatic Half-life</u>	<u>Photolysis</u>
Low boiling point hydrogen treated naphtha; heavy Baseoil; distillates (petroleum), hydrotreated heavy naphthenic 2-Butoxyethanol					

<u>Ingredient Name</u>	<u>Persistence/degradability</u>		<u>Bioaccumulative potential</u>		
	<u>Biodegradability</u>	<u>LogP_{ow}</u>	<u>BCF</u>	<u>Potential</u>	

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Low boiling point hydrogen treated naphtha; heavy Baseoil; distillates (petroleum), hydrotreated heavy naphthenic 2-Butoxyethanol	Readily Readily	>3.9	high
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Persistence/degradability : Ecological testing has not been conducted on this product.

13. Disposal considerations

Methods of disposal ; Waste of residues ; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

European Waste Catalogue (EWC) : 08 01 11*

Hazardous Waste : The classification of the product may meet the criteria for a hazardous waste

Additional Information : 08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

14. Transport information

International transport regulations

Land - Road/Railway

UN number : 1139
Proper shipping name : COATING SOLUTION
ADR/RID Class : 3
Packing group : III
ADR/RID label :



Other information : **Hazard identification number**
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Sea

UN number : 1139
Proper shipping name : COATING SOLUTION
IMDG Class : 3
Packing group : III
IMDG label :



Other information : **Emergency Schedules (EmS)**
3-06

15. Regulatory information

EU Regulations

Risk Phrases : R10- Flammable.
R66- Repeated exposure may cause skin dryness or cracking.

Safety Phrases : S24- Avoid contact with skin.
S33- Take precautionary measures against static discharges.

Product Use : Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Industrial applications, Used by Spraying.

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16. Other information

Full text of R-Phrases with no. appearing in Section 2 - Europe : R10- Flammable.
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
R65- Harmful: may cause lung damage if swallowed.
R36/38- Irritating to eyes and skin.
R66- Repeated exposure may cause skin dryness or cracking.

Text of classifications appearing in Section 2 - Europe : Xn - Harmful
Xi - Irritant

HISTORY

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