

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name:
Turbo 10

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

Identified uses: oil additives

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Company Name

TBM

8506 Herrington Ct.
Pevely, MO 63070

Telephone

1-314-721-2888
1-800-444-4720

1.4 Emergency telephone number:

24-Hour Health +49 6151 18 43 42 (international)
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements

Not applicable

Supplemental label information

EUH208: Contains (Methyl methacrylate). May produce an allergic reaction.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Oil solution of an acrylic polymer

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
white mineral oil (petroleum)	10.0 - 30.0%	8042-47-5	232-455-8	01-2119487078-27	No data available.	
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; baseoil - unspecified	3.0 - 30.0%	72623-86-0	276-737-9	01-2119474878-16	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC

Classification

Chemical name	Classification	Notes
white mineral oil (petroleum)	Asp. Tox.: 1: H304;	No data available.
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; baseoil - unspecified	Asp. Tox.: 1: H304;	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

[SECTION 4: First aid measures

General: First aider needs to protect himself.

4.1 Description of first aid measures

Inhalation: Move subject to fresh air and keep him calm. See a physician.

Skin Contact: Wash off immediately with soap and water. If skin irritation occurs consult a physician.

Eye contact: Flush eyes thoroughly with a large amount of water and consult a physician.

Ingestion: Do not induce vomiting. Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Product is soluble in medical white oil (BP) and/or paraffin oil.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media:	Dry chemical. Carbon Dioxide. Foam.
Unsuitable extinguishing media:	Water.
5.2 Special hazards arising from the substance or mixture:	In fires, hazardous combustion gases are formed: Carbon oxides
5.3 Advice for firefighters	
Special fire fighting procedures:	In the event of fire, cool the endangered containers with water.
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Assure sufficient ventilation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/mist/aerosol.
6.1.1 For non-emergency personnel:	Avoid release to the environment. Remove sources of ignition.
6.1.2 For emergency responders:	Isolate defective containers immediately, if possible and safe to do.
6.2 Environmental Precautions:	Prevent product from getting into subsoil/soil. Prevent product from getting into drains/surface water/groundwater.
6.3 Methods and material for containment and cleaning up:	Non-solid ground (soil etc.): Mechanical removal of the polluted surface. Solid ground (concrete or the like): Absorb with dry sand, possibly by heating. Dispose of contaminated material in accordance with regulations.
6.4 Reference to other sections:	For personal protection see section 8.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling:	When heated above the flash point and/or during spraying (atomizing), ignitable mixtures may form in air. Do not breathe vapors. Avoid contact with skin and eyes. Avoid formation of oil mist. Ensure there is good room ventilation.
7.2 Conditions for safe storage, including any incompatibilities:	Keep container tightly closed and in a well-ventilated place. Do not store at temperatures above 100 °C. Low temperature storage can cause handling problems. Viscosity of material will increase.
7.3 Specific end use(s):	Applications; see Section 1.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
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8.2 Exposure controls

Appropriate Engineering Controls:

For monitoring procedures refer for instance to "Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz und "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health

Individual protection measures, such as personal protective equipment

Eye/face protection:	tightly fitting goggles
Hand Protection:	Material: nitrile rubber gloves (minimal thickness 0.33 mm) Break-through time: 480 min Guideline: EN 374 Material: butyl rubber gloves (minimal thickness 0.7 mm) Break-through time: 120 min Guideline: EN 374 Additional Information: Gloves should be replaced regularly, especially after extended contact with the product., For each work-place a suitable glove type has to be selected. Additional Information: Suitable as spray protection., neoprene gloves, nitrile rubber gloves
Skin and Body Protection:	Wear suitable protective clothing as protection against splashing or contamination.
Respiratory Protection:	not required on normal handling
Hygiene measures:	Take off immediately all contaminated clothing. Follow the usual good standards of occupational hygiene. Store work clothing separately. Use skin protective preparation as preventive skin protection. Cloths contaminated with product should not be kept in trouser pockets.
Environmental Controls:	See sections 6 and 7.

[SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Amber
Odor:	Sweet
Odor Threshold:	No data available.
pH:	Not applicable
Freezing point:	-4 °C (Pour Point)
Boiling Point:	> 316 °C (1,013 hPa)
Flash Point:	> 120 °C (ASTM D 3278)
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper(%):	No data available.
Flammability Limit - Lower(%):	No data available.
Vapor pressure:	< 1 hPa (20 °C)
Vapor density (air=1):	> 1 20 °C
Density:	0.94 g/cm ³ (15 °C) (ASTM D 4052) 0.885 g/cm ³ (100 °C) (calculated)

Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	This material is considered stable under specified conditions of storage, shipment and/or use.
Kinematic viscosity:	175 - 350 mm ² /s (100 °C, ASTM D 445)
Dynamic viscosity:	No data available.

9.2 Other information

VOC Content:	0.2 % (calculated (1999/13/EC)).
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Minimum ignition temperature:	No data available.

[SECTION 10: Stability and reactivity

10.1 Reactivity:	see section "Possibility of hazardous reactions".
10.2 Chemical Stability:	This material is considered stable under specified conditions of storage, shipment and/or use.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Avoid high temperatures and sources of ignition. Depolymerization begins at 200 °C
10.5 Incompatible Materials:	Strong oxidizing agents
10.6 Hazardous Decomposition Products:	None when used as directed. Under conditions of thermal decomposition: Methacrylates When overheated: oil vapours

[SECTION 11: Toxicological information

General information:	No toxicological tests have been conducted with the product itself. No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.
Information on likely routes of exposure	
Inhalation:	If handled correctly, not a relevant route of exposure. Information on effects are given below.
Skin Contact:	Relevant route of exposure. Information on effects are given below.
Eye contact:	Relevant route of exposure. Information on effects are given below.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	LOSO (Rat): > 2,000 mg/kg
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<p>Components: white mineral oil (petroleum) lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based; baseoil - unspecified</p>	<p>No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.</p> <p>LD 50 (Rat): > 5,000 mg/kg</p> <p>LD 50 (Rat, male and female):> 5,000 mg/kg</p>
<p>Dermal Product:</p> <p>Components: white mineral oil (petroleum) lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; baseoil - unspecified</p>	<p>LOSO (Rabbit) > 2,000 mg/kg</p> <p>No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.</p> <p>LD 50 (Rabbit): > 2,000 mg/kg No deaths observed.</p> <p>LD 50 (Rabbit): > 5,000 mg/kg</p>
<p>Inhalation Product:</p> <p>Components: white mineral oil (petroleum)</p> <p>lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based; baseoil- unspecified</p>	<p>No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.</p> <p>LC 50 (Rat, 4 h)> 5 mg/l Dusts, mists and fumes, No deaths observed. Vapour</p> <p>LC 50 (Rat, 4 h)2.18 mg/l Dusts, mists and fumes, No deaths observed. Vapour</p>
<p>Repeated dose toxicity Product:</p> <p>Components: white mineral oil (petroleum) lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based; baseoil - unspecified</p>	<p>No data available.</p> <p>No data available.</p> <p>No data available.</p>
<p>Skin Corrosion/Irritation: Product:</p> <p>Components: white mineral oil (petroleum) lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based; baseoil - unspecified</p>	<p>If contact with skin is prolonged and/or frequent, irritations cannot be excluded. The product has a degreasing effect on skin. (analogy) Based on available data, the classification criteria are not met.</p> <p>OECD Test Guideline 404 (Rabbit): Not irritating</p> <p>(Rabbit): Not irritating</p>

Serious Eye Damage/Eye

Irritation:

Product: Contact with the eyes may cause irritation. (analogy)
Based on available data, the classification criteria are not met.

Components:

white mineral oil (petroleum) OEKO Test Guideline 405 (Rabbit): Not irritating
lubricating oils (petroleum), C15-30, OEKO Test Guideline 405 (Rabbit): Not irritating
hydrotreated neutral oil-based; baseoil - unspecified

Respiratory or Skin

Sensitization:

Product: not sensitizing to the skin analogy
Based on available data, the classification criteria are not met.

Components:

white mineral oil (petroleum) Buehler Test, OEKO Test Guideline 406 (Guinea Pig): Not a skin sensitizer.
lubricating oils (petroleum), C15-30, Buehler Test, OECD Test Guideline 406 (Guinea Pig): Not a skin sensitizer.
hydrotreated neutral oil-based; baseoil - unspecified

Germ Cell Mutagenicity

In vitro

Product: not mutagenic (analogy)

Components:

white mineral oil (petroleum) No data available.
lubricating oils (petroleum), C15-30, No data available.
hydrotreated neutral oil-based; baseoil - unspecified

In vivo

Product: not mutagenic (analogy)

Components:

white mineral oil (petroleum) No data available.
lubricating oils (petroleum), C15-30, No data available.
hydrotreated neutral oil-based; baseoil - unspecified

Carcinogenicity

Product: no specific test data available No evidence that cancer may be caused. (structure-activity-relationships) (analogy)

Components:

white mineral oil (petroleum) Not classified

lubricating oils
(petroleum), C15-30,
hydrotreated neutral oil-
based; baseoil -
unspecified

Not classified

Reproductive toxicity

Product: no specific test data available no evidence of reproductiontoxic properties
(structure-activity-relationships) (analogy)

Components:

white mineral oil
(petroleum)

Not classified

lubricating oils
(petroleum), C15-30,
hydrotreated neutral oil-
based; baseoil -
unspecified

Not classified

Specific Target Organ Toxicity - Single Exposure

Product: No toxicological tests have been conducted with the product itself.
No indications of critical properties in analogy to similar products or on the
basis of structure-activity relationships.

Components:

white mineral oil
(petroleum)

Not classified

lubricating oils
(petroleum), C15-30,
hydrotreated neutral oil-
based; baseoil -
unspecified

Not classified

Specific Target Organ Toxicity - Repeated Exposure

Product: No toxicological tests have been conducted with the product itself.
No indications of critical properties in analogy to similar products or on the
basis of structure-activity relationships.

Components:

white mineral oil
(petroleum)

Not classified

lubricating oils
(petroleum), C15-30,
hydrotreated neutral oil-
based; baseoil-
unspecified

Not classified

Aspiration Hazard

Product: No aspiration toxicity classification

Components:

white mineral oil
(petroleum)

May be fatal if swallowed and enters airways.

lubricating oils
(petroleum), C15-30,
hydrotreated neutral oil-
based; baseoil -
unspecified

May be fatal if swallowed and enters airways.

Other adverse effects: There are no toxicological data available for the product as such. Avoid contact with the skin and eyes and inhalation of the product vapours.

[SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Components

white mineral oil (petroleum) LL 50 (Leuciscus idus melanotus, 96 h): > 10,000 mg/l (OECD Test Guideline 203)
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; baseoil - unspecified LL 50 (Pimephales promelas, 96 h): > 100 mg/l (OECD Test Guideline 203)

Aquatic Invertebrates

Product: No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Components

white mineral oil (petroleum) EC 50 (Daphnia magna, 48 h): > 100 mg/l WAF
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; baseoil - unspecified EC 50 (Daphnia magna, 48 h): > 10,000 mg/l (OECD Test Guideline 202) WAF

Toxicity to Aquatic Plants

Product: No data available.

Components

white mineral oil (petroleum) No data available.
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; baseoil - unspecified No data available.

Toxicity to microorganisms

Product: No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Components

white mineral oil (petroleum) No data available.
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; baseoil - unspecified No data available.

Chronic Toxicity

Fish

Product: No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Components

white mineral oil (petroleum) No data available.

lubricating oils (petroleum), C15-30, No data available.

hydrotreated neutral oil-based; baseoil - unspecified

Aquatic Invertebrates

Product: No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

Components

white mineral oil (petroleum) NOEC (Daphnia magna, 21 d): 10 mg/l WAF

lubricating oils (petroleum), C15-30, NOEC (Daphnia magna, 21 d): 10 mg/l (OECD Test Guideline 211) WAF

hydrotreated neutral oil-based; baseoil - unspecified

Toxicity to Aquatic Plants

Product: No data available.

Components

white mineral oil (petroleum) No data available.

lubricating oils (petroleum), C15-30, NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 100 mg/l (OECD Test Guideline 201) WAF

hydrotreated neutral oil-based; baseoil - unspecified

12.2 Persistence and Degradability

Biodegradation

Product: No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

BOD/COD Ratio

Product No data available.

Components

white mineral oil (petroleum) No data available.

lubricating oils (petroleum), C15-30, No data available.

hydrotreated neutral oil-based; baseoil - unspecified

12.3 Bioaccumulative potential

Product: no specific test data available
No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.

12.4 Mobility in soil:	no specific test data available No indications of critical properties in analogy to similar products or on the basis of structure-activity relationships.
12.5 Results of PBT and vPvB assessment:	PBT: no vPvB: no
white mineral oil (petroleum)	Non-classified vPvB substance, Non-classified PBT substance
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; baseoil - unspecified	Non-classified vPvB substance, Non-classified PBT substance
12.6 Other adverse effects:	Prevent substance from entering soil, natural bodies of water and sewer systems.

[SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	No data available.
Disposal methods:	Waste is hazardous. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.
Contaminated Packaging:	Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.

European Waste Codes

Unused product: 13 02 05 - mineral-based non-chlorinated engine oil and lubricating oils

[SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

[SECTION 15: Regulatory information

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

EU. Directive 2012/18/EU (SEVESO 111) on major accident hazards involving dangerous substances,

Annex I: Not applicable

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

International regulations

Inventory Status:

Registration, Evaluation and Authorisation of Chemicals (REACH):	preregistered, registered or exempted	
US TSCA Inventory:	listed or exempted	
Canada DSL Inventory List:	listed or exempted	
Australia AICS:	listed or exempted	
Japan (ENCS) List:	listed or exempted	
Korea Existing Chemicals Inv. (KECI):	listed or exempted	
Philippines PICCS:	listed or exempted	
China Inv. Existing Chemical Substances:	listed or exempted	
New Zealand Inventory of Chemicals:	listed or exempted	HSR002605, Lubricants (Low Hazard} Group Standard 2006
Taiwan Chemical Substance Inventory:	listed or exempted	

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

[SECTION 16: Other information

Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW** - Occupational exposure limit; **ASTM** - American Society for Testing and Materials; **AwSV** - Ordinance on facilities for handling substances that are hazardous to water; **BSB** - Biochemical oxygen demand; **c.c.** - closed cup; **CAS** - Chemical Abstract Services; **CESIO** - European Committee of Organic Surfactants and their Intermediates; **CSB** - Chemical oxygen demand; **DMEL** - Derived minimum effect level; **DNEL** - Derived no effect level; **EbCSO** - median concentration in terms of reduction of growth; **EC** - Effective concentration; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **EN** - European norm; **ErCSO** - median concentration in terms of reduction of growth rate; **GGVSEB** - German ordinance for road, rail and inland waterway transportation of dangerous goods; **GGVSee** - German ordinance for sea transportation of dangerous goods; **GLP** - Good Laboratory Practice; **GMO** - Genetic Modified Organism; **IATA** - International Air Transport Association; **ICAO** - International Civil Aviation Organization; **IMDG** - International Maritime Dangerous Goods; **ISO** - International Organization For Standardization; **LD/LC** - lethal dosis/concentration; **LOAEL** - Lowest observed adverse effect level; **LOEL** - Lowest observed effect level; **M-Factor** - multiplying factor; **NOAEL** - No observed adverse effect level; **NOEC** - no observed effect concentration; **NOEL** - no observed effect level; **o.c.** - open cup; **OECD** - Organisation for Economic Cooperation and Developm; **OEL** - Occupational

Exposure Limit; PST - Persistent, bioaccumulative, toxic; PNEC - Predicted no effect concentration; REACH - REACH registration; RID - Convention concerning International Carriage by Rail; SVHC - Substances of Very High Concern; TA - Technical Instructions; TRGS - Technical Rules for Hazardous Substances; vPvB - very persistent, very bioaccumulative; WGK - Water Hazard Class

Key literature references and sources for data: No data available.

Wording of the H-statements in section 2 and 3

H304 . **May be fatal if swallowed and enters airways.**

Training information: Comply with national laws regulating employee instruction.

Other information: none

SOS No.:

Revision Information: Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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