1. Product and Company Identification

1.1. Product identifier

Trade name Turbo 10

1.2. Recommended use of the chemical and restrictions on use

Recommended use(s): oil additives

1.3. Details of the supplier of the safety data sheet

TBM, Inc.
8506 Herrington Court.
Pevely, MO 63070

Telephone No. 1-314-721-2888
Toll Free No. 1800-444-4720

Emergency phone numbers - Spill, Leak, Fire, Exposure or Accident

CHEMTREC®	1-800-424-9300
CANUTEC	613-996-6666 (Canada)
Outside USA	703-527-3887 (Collect calls accepted)
	+49 6151 18 4342 (Germany)
	+33 3 88 73 60 00 (France)

2. Hazards identification

2.1. Classification of the substance or mixture

This product is not considered to be a hazardous substance or mixture when classified in accordance with Regulation 29 CFR 1910.1200 (US GHS).

Classification according to Regulation 29CFR 1910.1200

This product is not considered to be a hazardous substance or mixture when classified in accordance with Regulation 29 CFR 1910.1200 (US GHS).

2.2. Label elements

Remarks No labeling is required under Regulation 29 CFR 1910.1200 (US GHS).

2.3. Other hazards

None known.

3. Composition/information on ingredients

3.1. Substances

3.2. Mixtures

Hazardous Ingredients

Component	CAS-No.	Content	Hazard class / Hazard category / Hazard statement
acrylic copolymer	trade secret	60.0 - 100.0 %	Not applicable.
interchangeable neutral oils		15.0 - 40.0 %	Not applicable.
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; baseoil - unspecified	72623-86-0		
white mineral oil (petroleum)	8042-47-5		
methyl methacrylate	80-62-6	0.1 - < 1.0 %	Flam. Liq. 2 ; H225 Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317 STOT SE 3 (inhalation); H335

4. First-aid measures

4.1. Description of first aid measures

General advice	The rescuer should always protect themselves from exposure prior to beginning rescue or first aid measures.
Inhalation	If inhaled, remove to fresh air. If symptoms persist, consult a physician for treatment.
Skin contact	Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Obtain medical attention immediately if symptoms occur. Wash clothing before reuse.
Eye contact	In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.
Ingestion	If swallowed, only induce vomiting if directed by medical personnel. Get medical attention. Never give anything by mouth to an unconscious person.

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

Product has dermal defatting effect

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

No information available.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water spray or fog, foam, dry chemical or CO2.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

5.2. Specific hazards arising from the chemical

In the case of fire, the following hazardous smoke fumes may be produced: carbon monoxide, carbon dioxide.

5.3. Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus.

Wear full protective gear.

Evacuate area and fight fire from a safe distance. Keep people away from and upwind of spill/leak. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate the area. Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Section 8 - Exposure Controls/Personal Protection.) Take off all contaminated clothing immediately.

6.2. Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, rivers, groundwater or soil.

6.3. Methods and materials for containment and cleaning up

Floor may be slippery; use care to avoid falling. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4. Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1. Precautions for safe handling

Safe handling advice	Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling.
Advice on protection against fire and explosion	When heated above the flash point and/or during spraying (atomizing), ignitible mixtures may form in air. In the event of fire, cool the endangered containers with water.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Keep container tightly closed and in a well-ventilated place. Do not store at temperatures above 100 °C / 212 °F. Low temperature storage can cause handling problems. Viscosity of material will increase.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Information

OIL MIST, MINERAL, PETROLEUM FUMES - see Remarks

Occupational Exposure Values		Remark(s):
ACGIH TLV-TWA	5 mg/m3	I: measured as inhalable fraction of the aerosol
ACGIH TLV-STEL		not established
OSHA PEL-TWA		not established
OSHA PEL-STEL		not established
OEL-TWA (Alberta)	5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Alberta)	10 mg/m3	CAS No. 8012-95-1
OEL-TWA (British Columbia)	1 mg/m3	CAS No. 8052-41-3
OEL-STEL (British Columbia)		not established
OEL-TWA (Ontario)	5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Ontario)	10 mg/m3	CAS No. 8012-95-1
OEL-TWA (Quebec)	5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Quebec)	10 mg/m3	CAS No. 8012-95-1
OEL-TWA (Mexico)	5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Mexico)	10 mg/m3	CAS No. 8012-95-1

8.2. Exposure controls

Engineering controls

Ensure there is good room ventilation.

8.3. Personal protective equipment

Protective measures	Facilities storing or utilizing this material should be equipped with an eyewash facility.
Hygiene measures	Take off all contaminated clothing immediately. 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.
Respiratory protection	Up to 10 times the TWA/TLV: Wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator., A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators., Where misting may occur, wear a MSHA/NIOSH approved (or equivalent) half mask, dust/mist air purifying respirator.
Hand protection	
General information	The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection: nitrile rubber glovesbutyl rubber glovesGloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.
Eye protection	Use safety glasses (ANSI Z87.1 or approved equivalent).
Skin and body protection	Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Colour	amber
Form	liquid
Odor	sweet
Odour Threshold	no data available
physical state	liquid
Melting point/freezing point	Pour Point -4 °C 25 °F
Boiling point/range	Boiling Temperature > 316 °C > 601 °F
Flash point	> 120 °C (ASTM D 3278) > 248 °F (ASTM D 3278)
Evaporation rate	no data available
Ignition temperature	no data available

Autoignition temperature	no data available
Decomposition temperature	This material is considered stable under specified conditions of storage, shipment and/or use.
Impact Sensitivity	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Flammability (solid, gas)	no data available
Vapour pressure	< 1 hPa (= mbar) at 20 °C / 68 °F
Density	0.94 g/cm3 at 15 °C / 59 °F
Relative density	no data available
Relative vapour density (related to air)	> 1 (20 °C) > 1 (68 °F)
Solubility in water	practically insoluble
Solubility (quantitative)	no data available
pH	no data available
n-Octanol/water partition coefficient	no data available
Viscosity (dynamic)	no data available
Viscosity (kinematic)	175 - 350 mm2/s (100 °C) (212 °F)

9.2. Other information

none

10. Stability and reactivity

10.1. Reactivity

see section 10.2.

10.2. Chemical stability

This material is considered stable under specified conditions of storage, shipment and/or use.

10.3. Possibility of hazardous reactions

Product will not undergo polymerization.

10.4. Conditions to avoid

High temperature.
Depolymerization begins at 200 °C / 392 °F.

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

11. Toxicological information

11.1. Information on toxicological effects

toxicokinetics, metabolism and distribution	No toxicological tests have been conducted with the product itself. no evidence for hazardous properties (structure-activity-relationships) (analogy)	
Acute Oral Toxicity	LD50 rat (analogy)	> 2,000 mg/kg
Acute Inhalational Toxicity	No data available	
Acute Dermal Toxicity	LD50 rabbit (analogy)	> 2,000 mg/kg
Caustic burning / irritation of skin	If contact with skin is prolonged and/or frequent, irritations cannot be excluded. The product has a degreasing effect on skin. (analogy)	
Serious eye damage/eye irritation		

	Contact with the eyes may cause irritation. (analogy)	
Respiratory/skin sensitization	(analogy)	not sensitizing
Aspiration hazard	No evidence of aspiration toxicity	
Mutagenicity assessment	not mutagenic (analogy)	
Carcinogenicity	No toxicological tests have been conducted with the product itself. no evidence for hazardous properties (structure-activity-relationships) (analogy)	
Reprotoxicity / teratogenicity	No toxicological tests have been conducted with the product itself. no evidence for hazardous properties (structure-activity-relationships) (analogy)	
CMR assessment	Based on available data, the classification criteria are not met.	
Specific Target Organ Toxicity - Single exposure	No toxicological tests have been conducted with the product itself.	
Specific Target Organ Toxicity - Repeated exposure	No toxicological tests have been conducted with the product itself. no evidence for hazardous properties (structure-activity-relationships) (analogy)	
General information	No toxicological tests have been conducted with the product itself. Avoid contact with the skin and eyes and inhalation of the product vapours.	

12. Ecological information

12.1. Toxicity

Hazardous to the aquatic environment	No investigations were carried out with the mixture itself. no evidence for hazardous properties (structure-activity-relationships) (analogy)	
Aquatoxicity, fish	No data available	
Aquatoxicity, invertebrates	, No test results available.	
Aquatoxicity, algae / aquatic plants	, No test results available.	
Toxicity in microorganisms	No data available	

12.2. Persistence and degradability

Persistence and degradability	No investigations were carried out with the mixture itself. no evidence for hazardous properties (structure-activity-relationships) (analogy)
Biodegradability	No data available

12.3. Bioaccumulative potential

Bioaccumulation	No investigations were carried out with the mixture itself. no evidence for hazardous properties (structure-activity-relationships) (analogy)

12.4. Mobility in soil

Mobility	No investigations were carried out with the mixture itself. no evidence for hazardous properties (structure-activity-relationships) (analogy)

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment	The classification criteria are not met based on the available data.

12.6. Other adverse effects

General Information	Prevent substance from entering soil, natural bodies of water and sewer systems.

13. Disposal considerations

13.1. Waste treatment methods

Product	Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.
Uncleaned packaging	Contaminated packages must be emptied as good as possible. They may then be recycled after proper cleaning. Packages that cannot be cleaned must be disposed of in the same way as the substance. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.
Code of waste EWC	13 02 05 waste engine, gear and lubricating oils - mineral-based non-chlorinated engine, gear and lubricating oils
	Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.

14. Transport information

US DOT Hazard Classification
Not subject to the regulations on dangerous goods.

Canadian TDG Classification
Not subject to the regulations on dangerous goods.

Shipment by sea IMDG/GGVSee
Not dangerous according to transport regulations.

Air transport ICAO/IATA
Not dangerous according to transport regulations.

15. Regulatory information

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

INVENTORY INFORMATION

REACH (EU)	preregistered, registered or exempted	
TSCA (USA)	listed or exempted	
DSL (CDN)	listed or exempted	
AICS (AUS)	listed or exempted	
METI (J)	listed or exempted	
ECL (KOR)	listed or exempted	
PICCS (RP)	listed or exempted	
IECSC (CN)	listed or exempted	
HSNO (NZ)	listed or exempted	HSR002605, Lubricants (Low Hazard) Group Standard 2006
ECS (Taiwan)	listed or exempted	

US FEDERAL REGULATORY INFORMATION

Component / CASRN	TPQ [lbs]	CERCLARQ[lbs] (40CFR302.4)	SARA 302 List of EHS	SARA 313 (40CFR372)	TSCA 12b
NONE					

COMPONENT CLASSIFICATION UNDER CLEAN AIR ACT SECTION 112

Component / CASRN	Weight %	HAP	EHAP
NONE			

PRODUCT CLASSIFICATION UNDER SECTION 311/312 OF SARA (40CFR370)

NONE

US STATE REGULATORY INFORMATION

Component / CASRN	New Jersey RTK	Pennsylvania RTK	Massachusetts RTK	California Proposition 65 Cancer	California Proposition 65 Reproductive

acrylic copolymer	NO	NO	NO	NO	NO
neutral oil / 72623-86-0	NO	NO	NO	NO	NO
white mineral oil / 8042-47-5	NO	NO	NO	NO	NO

CANADIAN REGULATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains all information required by the Controlled Products Regulations.

This is a non-controlled product.
WHMIS:NO

Component / CASRN	NPRI
white mineral oil / 8042-47-5	YES

16. Other information

	Health	Flammability	Physical Hazard
HMIS-Ratings	1	1	0
NFPA-Ratings	1	1	0

HMIS Hazard Ratings	NFPA Hazard Ratings
4 = severe	4 = extreme
3 = serious	3 = high
2 = moderate	2 = moderate
1 = slight	1 = slight
0 = minimal	0 = insignificant
N = no rating for powders	N = no rating for powders
* = chronic health hazard	

Relevant H phrases from chapter 3

methyl methacrylate

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

References

relevant manuals and publications
own examinations
own toxicological and ecotoxicological studies
toxicological and ecotoxicological studies of other manufacturers
SIAR
OECD-SIDS
RTK public files

Revision Date 02/11/2015

Places marked by || have been amended from the last version.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Date of printing : 03/03/2015

Legend

ACC	American Chemistry Council
ACGIH	American Conference of Governmental Industrial Hygenists
ACS	Advisory Committee on Sustainability
ADI	Acceptable Daily Intake
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BOD	Biochemical oxygen demand
c.c.	closed cup
CAO	Cargo Aircraft Only
Carc	Carcinogen
CAS	Chemical Abstract Services
CDN	Canada
CEPA	Canadian Environmental Protection Act
CERCLA	Comprehensive Environmental Response – Compensation and Liability Act
CFR	Code of Federal Regulations
CMR	carcinogenic-mutagenic-toxic for reproduction
COD	Chemical oxygen demand
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
DOT	Department of Transportation
EC50	half maximal effective concentration
EPA	Environmental Protection Agency
ErC50	Reduction of Growth Rate
ERG	Emergency Response Guide Book
FDA	Food and Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
HCS	Hazard Communication Standard
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO-TI	International Civil Aviation Organization- Technical Instructions
ICCA	International Council of Chemical Association
ID	Identification number
IMDG	International Maritime Dangerous Goods
IUPAC	International Union of Pure and Applied Chemistry
ISO	International Organization For Standardization
LC50	50 % Lethal Concentration
LD50	50 % Lethal Dose
L(E)C50	LC50 or EC50
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
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 Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
RQ	Reportable Quantity
SDS	Safety Data Sheet

STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
WHMIS	Workplace Hazardous Materials Information System
WHO	World Health Organization