



# Safety Data Sheet

Prepared according to Globally Harmonized System (GHS) & 29 CFR 1910.1200.  
United States.

## SECTION 1: IDENTIFICATION

**Product Name:** Throat 'n Throttle TNT-10™  
**Intended Use(s):** Cleans intake manifold, combustion chamber, throttle plates and valves of gasoline engines through the vacuum system  
**SDS No.:** MP-010.2  
**Revision Date:** May 26, 2015  
**Manufacturer:** **Muscle Products Corp.**  
752 Kilgore Road  
Jackson Center, PA 16133 U.S.A.  
www.mpclubricants.com  
**Company Phone:** 1-800-227-7049 U.S. & Canada  
1-814-786-0166 International  
**Emergency Telephone (24 hr):** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## SECTION 2: HAZARDS IDENTIFICATION

**Classification**  
Flammable liquids - Category 2  
Acute toxicity, dermal - Category 5 (GHS classification only; not classed according to OSHA HCS)  
Acute toxicity, inhalation (mists) - Category 4  
Skin corrosion / irritation - Category 2  
Serious eye damage / irritation - Category 2A  
Skin sensitization - Category 1A  
Single target organ toxicity - single exposure (STOT-SE) - Category 3 (narcotic effects)  
Aspiration hazard - Category 1

### Label Elements

**Symbols:**



**Signal Word:** Danger  
**Hazard Statement(s):** Highly flammable liquid and vapor.  
May be fatal if swallowed and enters airways.  
May be harmful in contact with skin.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause drowsiness or dizziness.

### Precautionary Statement(s)

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges.  
Avoid breathing fume / mist / vapors / spray. Use only outdoors or in a well-ventilated area. Wash thoroughly with soap and water after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves / clothing / eye protection.

**Response:** IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

In case of fire, use carbon dioxide, dry chemical, alcohol-resistant foam or water fog.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed and cool. Store locked up.

**Disposal:**

Dispose of product and / or container to a licensed waste disposal contractor in accordance with local, regional, national and international regulations.

**Other Hazards (HNOC):**

This product is a static accumulator. Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapor mixtures can occur.

Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Repeated exposure to high levels may produce liver and kidney damage. Exposure may enhance the toxicity of other materials.

**HMIS III ratings (U.S.)**

**Health:** 2 \* **Flammability:** 3 **Physical hazards:** 0 **Personal protection:** None assigned - PPE codes should be determined by the employer, who is familiar with the actual conditions under which the material is used. See Section 8 for more information.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient Name	CAS No	% by Weight*
Petroleum distillates	8052-41-3	40 - 50 %
Isopropyl alcohol	67-63-0	20 - 30 %
Distillate fuel oil, middle	8008-20-6	20 - 30 %
Petroleum hydrocarbon mixture*	N/A - mixture	5 - 15 %
Severely hydrotreated mineral oils consisting of one or more of the following: Distillates (petroleum), hydrotreated heavy naphthenic Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-52-5 64742-53-6	1 - 10 %
Nonane	111-84-2	0 - 4 %
Trimethylbenzene (mixed isomers)	25551-13-7	0 - 2 %

\* If Chemical Name/CAS No is "proprietary" or "confidential" and/or % by Weight is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**SECTION 4: FIRST AID MEASURES**

**Inhalation:**

Remove person to fresh air and keep comfortable for breathing. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.

**Skin contact:**

Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Follow by washing with soap if available. Call a poison center or doctor if you feel unwell. If skin irritation or rash occurs: Get medical attention. Launder contaminated clothing and clean shoes thoroughly before reuse.

**Eye Contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes or until chemical is removed. If eye irritation persists: Get medical attention.

**Ingestion:**

DO NOT induce vomiting. If conscious, rinse mouth thoroughly with water. Call a poison center or doctor if you feel unwell. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Transport to nearest medical facility for additional treatment. Symptoms can occur several hours after aspiration.

**Most important symptoms / effects (acute and delayed):**

Ingestion may cause abdominal irritation, nausea, vomiting and diarrhea. If material is aspirated into the lungs during ingestion or vomiting, signs and symptoms may include: coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and / or fever.

Inhalation of vapors or mists may cause irritation of mucous membranes and respiratory tract, headaches, dizziness, drowsiness, or other central nervous system effects.

Skin irritation may include redness, edema, drying and cracking of skin. Repeated, frequent or prolonged skin contact may cause defatting of the skin which can lead to dermatitis.

Eye irritation may include stinging, tearing, redness and blurred vision.

**Indication of immediate medical attention or special treatment, if necessary:**

If exposed or concerned: Get medical attention.

ADVICE TO PHYSICIANS: Treat symptomatically. Potential for chemical pneumonitis. Contact poison treatment specialist if large quantities have been ingested or inhaled.

**Additional advice / information:**

None known.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:**

Carbon dioxide, dry chemical, alcohol-resistant foam or water fog. Sand or earth may be used for small fires. Water spray can be used to cool adjacent containers exposed to fire.

DO NOT use direct water jet or high-pressure stream. Water (except as fog) may scatter and spread fire.

**Hazardous combustion products:**

Smoke, irritating fumes and vapors, hydrogen chloride, oxides of carbon and nitrogen and other toxic fumes.

**Protection for firefighters:**

As in any fire, wear self-contained breathing apparatus operated in positive pressure mode and full protective gear. Water or foam may cause frothing.

This product is a static accumulating liquid that can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor may cause flash fire. Static electricity accumulation may be significantly increased by the presence of water or other contaminants. Restrict flow velocity to avoid build-up of static charge. Vapor is heavier than air, spreads along the ground and distant ignition is possible. Use spark-proof tools and explosion-proof equipment.

**Additional advice / information:**

Take no action involving personal risk or without suitable training. DO NOT release chemically contaminated water into drains, soil or surface water.

**NFPA hazard identification (U.S.):**

Health: 2      Flammability: 3      Instability: 0      Special hazards: ---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:**

Evacuate personnel to safe area. Keep unnecessary personnel away. Stop leak if possible without risk. Eliminate all ignition sources if possible without risk. Vapor is heavier than air, spreads along the ground and distant ignition is possible. Vapor may form an explosive mixture with air. Prevent from spreading by using sand, earth or other appropriate barriers. Prevent liquid entry into basements or confined areas. Attempt to disperse vapor or direct its flow to a safe location for example by using fog sprays / vapor suppressing foam. Take precautionary measures against static discharge.

Avoid inhalation of vapors or mists. Avoid contact with skin, eyes and clothing - do not touch or walk through spilled material. Floors may be slippery. Wear protective clothing / equipment (see Section 8). No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**Environmental precautions:**

Prevent from entering soil, ditches, sewers, waterways and groundwater. Do NOT flush into surface water, sanitary sewer or ground water system.

**Methods and materials for containment and clean-up:**

Contain spilled material. Wipe up or absorb spill with a noncombustible material (i.e. vermiculite, sand or earth). Use non-sparking tools to pick up and transfer spent absorbent to a properly labeled container. Seal container for later disposal.

LARGE SPILL (> 1 drum): Dike area far ahead of spill to prevent spreading. Stay upwind and keep out of low areas. Pump liquid to salvage tank for recovery or safe disposal. Remaining residue may be taken up with a noncombustible absorbent material. Use non-sparking tools to shovel waste into properly labeled containers. Seal containers for later disposal.

**Additional advice / information:**

See Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling:

Avoid contact with eyes, skin, clothing and shoes. Avoid repeated or prolonged skin contact. Wear protective gloves and any other PPE deemed suitable (see Section 8). If product is sprayed or misted, avoid breathing fumes, mist, vapors or spray. Use adequate ventilation and/or engineering controls (see Section 8). Keep away from ignition sources. When handling, DO NOT eat, drink or smoke. DO NOT ingest product. Wash face, hands and any exposed skin thoroughly with soap and water after handling. Contaminated work clothing must not be allowed out of the workplace. Launder contaminated clothing before reuse.

Use non-sparking tools. Keep containers closed and upright when not in use. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Do NOT use compressed air for filling, discharging or handling operations. DO NOT reuse empty containers without cleaning or reconditioning.

### Conditions for safe storage, including incompatibilities:

Keep in original container and tightly closed and sealed until ready for use. Store in accordance with local regulations. Keep container protected from extreme heat and sources of ignition in a cool, dry and well-ventilated place. Take precautions against electrostatic discharges. Dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Bulk storage tanks should be diked. The vapors in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable. Keep away from incompatible materials (see Section 10). Take precautions to avoid release to the environment. DO NOT store in unlabeled or mislabeled containers.

### Additional advice / information:

Empty containers contain residue which may exhibit hazards of the product. DO NOT cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Occupational exposure limits:

Component	OSHA PEL	ACGIH TLV	NIOSH
Petroleum distillates 8052-41-3	TWA: 500 ppm TWA: 2900 mg/m <sup>3</sup>	TWA: 100 ppm	TWA: 350 mg/m <sup>3</sup> CEILING: 1800 mg/m <sup>3</sup> (15 mins) IDLH: 20000 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup> IDLH: 2000 ppm (10% LEL)
Distillate fuel oil, middle 8008-20-6	Not available	TWA: 200 mg/m <sup>3</sup> (vapor)	TWA: 100 mg/m <sup>3</sup>
Petroleum hydrocarbon mixture	Not available	Not available	Not available
Severely hydrotreated mineral oils: Oil mist, Mineral (if generated) 64742-52-5; 64742-53-6	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Nonane 111-84-2	Not available	TWA: 200 ppm	TWA: 200 ppm TWA: 1050 mg/m <sup>3</sup>
Trimethyl Benzene (all isomers) 25551-13-7	Not available	TWA: 25 ppm	Not available

### Components with biological occupational exposure limits:

Component	Parameter	Medium	Sampling Time	Permissible Concentration	Basis
Isopropyl alcohol 63-63-0	Acetone	Urine	End of shift at end of workweek	40 mg/L	ACGIH BEI

### Engineering controls:

Use with adequate ventilation. This product is a static accumulating liquid. Ground/bond container and equipment. Use process enclosures where possible, local exhaust ventilation or other engineering controls to keep work exposure to airborne contaminants below recommended limits. Monitoring the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance and adequacy of exposure controls. The level and protection and types of engineering controls necessary will vary depending upon potential risk conditions. Select controls based on a risk assessment of local circumstances.

## **Personal protective equipment**

### **Eye / face protection:**

Wear safety glasses with side shields. Chemical goggles recommended during product transfer.

### **Skin / body protection:**

Wear chemical resistant, impervious gloves. For incidental contact protection, use PVC or neoprene. For longer time protection: Butyl or nitril rubber. Long-sleeve shirt recommended. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

### **Respiratory protection:**

Not usually required under normal conditions of use. If airborne concentrations are above exposure limits, use an approved respirator. Consult with an industrial hygienist or respiratory protective equipment suppliers to determine the appropriate respiratory protection for your specific use of this material.

### **Work and hygiene practices:**

Safety showers and eye wash stations should be provided close to work areas with splash hazards. Launder contaminated clothing and shoes before reuse. Follow general hygiene considerations recognized as common good work practices. Wash face, hands and any exposed skin thoroughly after handling. Do NOT eat, drink or smoke when handling this product.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear, blue liquid
<b>Odor:</b>	Petroleum solvent/alcohol
<b>Odor threshold:</b>	Not determined.
<b>pH:</b>	Not determined.
<b>Melting / freezing point:</b>	-34.6°F (37°C) ASTM D-2386
<b>Initial boiling point / range:</b>	180°F (82°C) ASTM D-86
<b>Flash point:</b>	68°F (20°C) ASTM D-56
<b>Evaporation rate:</b>	Not determined.
<b>Flammability / Explosive Limits:</b>	
<b>Upper:</b> 2 %	<b>Lower:</b> 10 %
<b>Vapor pressure:</b>	1.33 PSI ASTM D-5191
<b>Vapor density:</b>	Not determined.
<b>Specific gravity:</b>	0.7923 g/cm <sup>3</sup> @ 60°F ASTM D-1298
<b>Relative density:</b>	0.7919 g/cm <sup>3</sup> @ 60°F ~ 6.609 lbs/US gallon ASTM D-1298
<b>Solubility(ies):</b>	Partial (water)
<b>Partition coefficient: n-Octanol/water</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>Viscosity:</b>	1.27 cSt @ 40°C ASTM D-445

*The above properties are typical values and do NOT constitute a product specification.*

## **SECTION 10: STABILITY AND REACTIVITY**

### **Stability:**

Stable under normal handling and storage conditions. If heated, product's static accumulation will rise and could cause flash fire.

### **Possibility of hazardous reactions:**

None expected under normal handling and storage conditions.

### **Conditions to avoid:**

Direct sunlight, high temperatures, excessive heat and sources of ignition. Strong oxidizing conditions.

### **Incompatible materials:**

Strong oxidizing agents. Reducing agents. Acids. Can react with alkali metals and alkaline earth metals, iron, zinc and aluminum at high temperatures leading to product decomposition.

### **Hazardous decomposition products:**

Smoke, carbon monoxide, carbon dioxide, aldehydes, sulphur oxides, unidentified organic compounds, and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Likely routes of exposure:

Ingestion:	May be fatal if swallowed and enters airways.
Inhalation:	Harmful if inhaled.
Skin contact:	Causes skin irritation. May be harmful in contact with skin. May cause an allergic skin reaction.
Eye contact:	Causes serious eye irritation.

#### Acute exposure

Oral toxicity:	No data on product. ATEmix: LD50 > 5000 mg/kg, rat.
Dermal toxicity:	No data on product. ATEmix: LD50 > 2500 mg/kg, rabbit.
Inhalation toxicity:	No data on product. ATEmix: LC50 > 5 mg/L, 4 hr, rat.
Skin corrosion / irritation:	No data on product. Causes skin irritation based on component data.
Eye damage / irritation:	No data on product. Causes serious eye irritation based on component data.
Sensitization – skin / respiratory:	May cause skin sensitization. Not expected to be a respiratory sensitizer. Based on component data.

#### Chronic exposure

Germ cell mutagenicity:	No data available to indicate product or its components present at 0.1% or greater are mutagenic.
Carcinogenicity:	This product contains severely hydrotreated mineral oils which have not been found to be carcinogenic or potential carcinogens. The oils in this product contain < 3.0% DMSO extractable compounds by IP 346. IARC Monographs: Isopropanol, CASRN 67-63-0, Group 3 - Not classifiable ACGIH: 2-Propanol, CASRN 67-63-0, A4 - Not classifiable. Kerosene, CASRN 8008-20-6, A3 - Confirmed animal with unknown relevance to humans. U.S. NTP: No components identified. U.S. OSHA (29 CFR 1910.100-1051): No components identified.
Reproductive toxicity:	No data available to indicate product or its components present at 0.1% or greater cause reproductive toxicity.

#### Specific target organ toxicity (STOT)

Single exposure:	Inhalation may cause headaches, dizziness, drowsiness, or other central nervous system effects.
Repeated / prolonged exposure:	Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Repeated exposure to high levels may produce liver or kidney damage. Exposure may enhance the toxicity of other materials.

#### Aspiration hazard

If swallowed material can be aspirated into the lungs and cause chemical pneumonia, varying degrees of pulmonary injury or death.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity:

#### Fish:

Mineral spirits: 96 Hr LL50 8.2 mg/L *Oncorhynchus mykiss*.  
IPA: 96 Hr LC50 9640 mg/L (flow-through) *Pimephales promelas*; 96 Hr LC50 11130 mg/L (static) *Pimephales promelas*.  
Severely hydrotreated mineral oils: 96 Hr LC50 > 5,000 mg/L *Oncorhynchus mykiss*.  
Trimethylbenzene: 96 Hr LC50 7.72 mg/L (flow-through) *Pimephales promelas*.

#### Aquatic Invertebrates:

Mineral spirits: EL50 10 mg/L, *Daphnia magna*.  
IPA: LL/EL/IL50 > 100 mg/L *Daphnia magna*; 48 Hr EC50 13299 mg/L *Daphnia magna*  
Severely hydrotreated mineral oils: 48 Hr EC50 > 1000 mg/L, *Daphnia magna* (water flea).

#### Aquatic Plants:

Mineral spirits: 96 Hr EL50 45 mg/L *Scenedesmus subspicatus*  
IPA: LL/EL/IL50 > 100 mg/L algae; 96 Hr EC50 > 1000 mg/L *Desmodesmus subspicatus*.

**Microorganisms:**

IPA: LL/EL/IL50 > 100 mg/L bacteria.

**Other:**

None.

**Persistence / degradability:**

No data on product. Partially biodegradable based on component data.

**Bioaccumulative potential:**

No data on product. Component data indicates some potential for bioaccumulation.

**Mobility:**

No data on product. Partially soluble in water based on component data.

**Ozone depletion:**

No known ingredients present at 0.1% or greater are identified as ozone-depleting substances.

**Other adverse effects:**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS****Disposal:**

Avoid release to the environment. Do not dispose to any sewer, ground or body of water. Recycle or dispose of to a licensed waste disposal contractor in accordance with local, regional, national and international regulations.

**Empty containers:**

Drain containers thoroughly. Empty containers may contain hazardous residue or vapors. Vent in a safe place away from sparks and fire. Do not puncture, cut or weld on or near uncleaned drums. Labels should not be removed from containers until they have been cleaned. Dispose of or recycle packaging in accordance with local, regional, national or international regulations.

**Additional advice / information:**

It is the responsibility of the user to determine, at the time of disposal, whether product meets the RCRA criteria for hazardous waste.

**SECTION 14: TRANSPORT INFORMATION****U.S. Department of Transportation (U.S. DOT):**

UN/ID Number:	UN1993
Proper Shipping Name:	Flammable liquid, n.o.s.
Hazard Class or Division:	3
Packing Group:	II
Label Code(s):	3
Quantity Limitations:	Passenger aircraft / rail: 5 L Cargo aircraft only: 60 L
Description:	Flammable liquid, n.o.s., (isopropanol), 3, II
NAERG Number:	128

**UN Model Regulations (annexes to the Recommendations on the Transport of Dangerous Goods):**

See U.S. DOT.

**IMDG Code:**

Product does not meet the criteria for marine pollutant classification. See U.S. DOT.

**IBC Code / Annex II of MARPOL 73/78:**

Not determined.

**Additional advice / information:** None known.**SECTION 15: REGULATORY INFORMATION****U.S. Federal Regulations:**

TSCA: All components are on the inventory or exempt from listing.

**SARA Title III:**

Sections 311/312 Hazard Classes:

Acute health hazard:	Yes
Chronic health hazard:	Yes

Fire hazard: Yes  
Reactive hazard: No  
Release of pressure hazard: No

Section 313 Form R reporting:

CASRN 95-63-6 1,2,4 Trimethylbenzene < 1.2 % bw concentration.

Section 302 Extremely Hazardous Substances (EHS) / CERCLA Hazardous Substances:

SARA EHS: This product does not contain greater than 1.0% of any chemical substances (0.1% for carcinogens) on the list of SARA Extremely Hazardous Substances.

CERCLA: Zinc compounds, < = 0.03% bw concentration, no RQ assigned to the generic or broad class.

#### U.S. State Regulations:

California Prop. 65: Product does not intentionally contain any Proposition 65 chemicals. NOTE: We do not routinely analyze products for impurities.

Massachusetts RTK: CASRN 8052-41-3 Stoddard solvent. CASRN 67-63-0 Isopropyl alcohol. CASRN 64742-53-6 Mineral oil, petroleum distillates, hydrotreated light naphthenic. CASRN 111-84-2 Nonane. CASRN 25551-13-7 Trimethylbenzene.

New Jersey RTK: CASRN 8052-41-3 Stoddard solvent. CASRN 67-63-0 Isopropyl alcohol. CASRN 111-84-2 Nonane. CASRN 25551-13-7 Trimethylbenzene.

Pennsylvania RTK: CASRN 8052-41-3 Stoddard solvent. CASRN 67-63-0 2-Propanol. CASRN 111-84-2 Nonane. CASRN 25551-13-7 Benzene, trimethyl-.

Other: None.

#### International Inventories:

Components of this product are compliant with, or listed on, one or more of the following inventories:

Australia (AICS), Canada (DSL/NDL), China (IECSC), EU (EINECS/REACH), Japan (ENCS), Korea (KECI/ECL), Mexico (INSQ), New Zealand (NZIoC), Philippines (PICCS), and Turkey.

EU: To obtain REACH compliance status, please email us at sales@mpclubricants.com.

Other regulatory information: None.

### SECTION 16: OTHER INFORMATION

#### SDS History

Issue date: September 8, 2005  
Revision date: May 26, 2015  
Revision number: 04  
Revision indicator: This SDS has been revised as follows:  
Prepared for compliance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and the revised 29 CFR 1910.1200 (U.S. Hazard Communication Standard).  
Prepared by: Technical Dept.

#### Acronym Legend:

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	<b>LD<sub>50</sub></b>	Lethal dose to 50% of test organisms
<b>BCF</b>	Bioconcentration Factor	<b>LOAEL</b>	Lowest Observed Adverse Effect Level
<b>BEI</b>	Biological Exposure Indices	<b>NFPA</b>	National Fire Protection Association
<b>CAS</b>	Chemical Abstracts Service	<b>NIOSH</b>	National Institute for Occupational Safety & Health
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation and Liability Act (Superfund)	<b>NOAEL</b>	No Observed Adverse Effect Level
<b>EC<sub>50</sub></b>	Effective concentration to 50% of test organisms	<b>NTP</b>	National Toxicology Program
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know	<b>OSHA</b>	Occupational Health and Safety Administration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals	<b>PEL</b>	Permissible Exposure Limit
<b>HMIS</b>	Hazardous Material Information System	<b>RQ</b>	Reportable Quantity
<b>IARC</b>	International Agency for Research on Cancer	<b>SARA</b>	U.S. EPA Superfund Amendments and Reauthorization Act
<b>IBC</b>	Intermediate Bulk Container	<b>STEL</b>	Short-Term Exposure Limit
<b>IMDG</b>	International Maritime Dangerous Goods Code	<b>TLV</b>	Threshold Limit Value
<b>LC<sub>50</sub></b>	Lethal concentration to 50% of test organisms	<b>TPQ</b>	Threshold Planning Quantity
		<b>TWA</b>	Time-Weighted Average
		<b>VOC</b>	Volatile Organic Compound

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- END SAFETY DATA SHEET -