# malko

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Product identifier Red Thunder

Version # 02

 Issue date
 05-19-2015

 Revision date
 05-19-2015

 CAS #
 Mixture

 Product Code
 1023

 Product use
 Degreaser

Manufacturer information Malco Products, Inc.

361 Fairview Ave Barberton, OH 44203

**United States** 

msdsinfo@malcopro.com www.malcopro.com

 Phone
 800-253-2526

 Fax
 330-753-2025

 Phone
 1-800-424-9300

Supplier Not available.

## 2. Hazards Identification

Emergency overview DANGER

Corrosive. Causes skin and eye burns.

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Causes chemical burns. Corrosive to the eyes and may cause severe damage including blindness.

Do not get this material in contact with eyes.

**Skin** Causes chemical burns. Do not get this material in contact with skin.

Inhalation May cause irritation of respiratory tract. Prolonged inhalation may be harmful. Do not breathe

dust/fume/gas/mist/vapors/spray.

**Ingestion** Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. Do not

ingest.

Chronic effects Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms Contact with this material will cause burns to the skin, eyes and mucous membranes.

Potential environmental effects May cause long-term adverse effects in the environment.

# 3. Composition / Information on Ingredients

Components	CAS#	Percent
Diethylene Glycol Monobutyl Ether	112-34-5	1 - 5
Sodium Metasilicate	6834-92-0	1 - 5
Other components below reportable levels		60 - 100

#### 4. First Aid Measures

First aid procedures

**Inhalation** Move to fresh air. Get medical attention, if needed.

**Skin contact** Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water.

Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected

skin. Wash clothing separately before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO

NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention

immediately.

Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth

thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped

with a one-way valve or other proper respiratory medical device.

Notes to physician General advice In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS criteria.

**Extinguishing media** 

Suitable extinguishing

media

Not available.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Fire fighting

equipment/instructions

Not available.

**Explosion data** 

Sensitivity to static

discharge

Not available.

Sensitivity to mechanical

impact

Not available.

**Hazardous combustion** 

products

Not available.

#### 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. For

personal protection, see section 8 of the MSDS.

**Environmental precautions** 

**Methods for containment** 

Do not contaminate water.

Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent

entry into waterways, sewer, basements or confined areas.

**Methods for cleaning up**Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth

and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use. Clean up in accordance with all applicable

regulations. For waste disposal, see section 13 of the MSDS.

Other information Clean up in accordance with all applicable regulations.

### 7. Handling and Storage

**Handling** Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid

prolonged exposure. Do not get this material on clothing. Do not use in areas without adequate

ventilation. Wash thoroughly after handling. Avoid release to the environment.

Storage Store in a closed container away from incompatible materials. Store away from incompatible

materials (see Section 10 of the MSDS).

## 8. Exposure Controls / Personal Protection

Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value	Form
Diethylene Glycol Monobutyl Ether (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

**Form** Components Value Type Diethylene Glycol TWA 10 ppm Inhalable fraction and Monobutyl Ether (CAS vapor.

112-34-5)

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates **Engineering controls** 

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure

adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Face-shield. Do not get in eyes.

Do not get this material in contact with skin. Wear chemical protective equipment that is Skin protection

specifically recommended by the manufacturer. It may provide little or no thermal protection.

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release. Respiratory protection

exposure levels are not known, or any other circumstances where air-purifying respirators may not

provide adequate protection.

Hand protection Wear protective gloves.

## 9. Physical & Chemical Properties

**Appearance** Clear. Physical state Liquid. Liquid. **Form** Color Red

Odor Cinnamon Not available. Odor threshold

рΗ 12.7

Vapor pressure 0.0008 hPa estimated

Vapor density Not available.

**Boiling** point 446.72 °F (230.4 °C) estimated 937.46 °F (503.03 °C) estimated Melting point/Freezing point

Not available. Solubility (water) Specific gravity Not available. Relative density Not available. Flash point Not available. Not available.

Flammability limits in air, upper, % by volume

Flammability limits in air,

lower, % by volume

Not available.

442 °F (227.78 °C) estimated **Auto-ignition temperature** 

VOC 0 %

Not available. **Evaporation rate Viscosity** 5 cP estimated

Viscosity temperature 68 °F (20 °C) estimated

Partition coefficient (n-octanol/water)

Not available.

Other data

8.80 lb/gal estimated Density 4.77 cSt estimated Kinematic viscosity Kinematic viscosity temp 68 °F (20 °C) estimated

#### 10. Chemical Stability & Reactivity Information

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents. Chemical stability Material is stable under normal conditions.

**Conditions to avoid**Do not mix with other chemicals. Contact with incompatible materials.

**Incompatible materials** Acids. Oxidizing agents.

**Hazardous decomposition** 

products

Not available.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components Species Test Results

Diethylene Glycol Monobutyl Ether (CAS 112-34-5)

<u>Acute</u>

**Dermal** 

LD50 Rabbit 2700 mg/kg

Oral

LD50 Guinea pig 2000 mg/kg

 Mouse
 2400 mg/kg

 Rabbit
 2200 mg/kg

 Rat
 4500 mg/kg

Acute effects Causes burns.
Sensitization Not available.

**Local effects** May produce corrosive solutions on contact with water.

Chronic effects Not expected to be hazardous by WHMIS criteria. Prolonged inhalation may be harmful.

Carcinogenicity
Not available.

Skin corrosion/irritation
Corrosive effects.

Serious eye damage/irritation
Mutagenicity
Not available.

Reproductive effects
Not available.

Teratogenicity
Not available.

Synergistic materials
Not available.

### 12. Ecological Information

Ecotoxicological data

Components Species Test Results

Diethylene Glycol Monobutyl Ether (CAS 112-34-5)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 1300 mg/l, 96 hours

Sodium Metasilicate (CAS 6834-92-0)

**Aquatic** 

Crustacea EC50 Water flea (Ceriodaphnia dubia) 0.28 - 0.57 mg/l, 48 hours
Fish LC50 Western mosquitofish (Gambusia affinis) 1800 mg/l, 96 hours

**Ecotoxicity** Contains a substance which causes risk of hazardous effects to the environment.

**Environmental effects**An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Aquatic toxicity Not available.

Persistence and degradability Not available.

**Partition coefficient** 

Diethylene Glycol Monobutyl Ether 0.56

# 13. Disposal Considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Dispose in accordance with all applicable

regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

## 14. Transport Information

#### **TDG**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

## 15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled WHMIS classification E - Corrosive

WHMIS labeling





#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other Information

NFPA ratings Health: 3

Flammability: 1 Instability: 1

#### Disclaimer

Malco Automotive cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared by

Not available.