



Noble Earth Technologies

Graffiti Remove

MATERIAL SAFETY DATA SHEET

COMPANY DETAILS

Company Name & Address: Noble Earth Technologies
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Hazardous according to criteria of Worksafe Australia.

I IDENTIFICATION

Product Name: Noble Earth Technologies Graffiti Remove
Other Names: None
UN No: None allocated.
Hazchem Code: None allocated.
Dangerous Goods Class: None allocated.
Sub Risk Class: No Subsidiary Risk.
Packaging Group: None allocated.
EPG: None allocated.
Poison Schedule: Not Scheduled.
Product Type: Organic liquid.
Chemical Family: Mixture of solvents.
Uses: Tank degreaser.

Physical appearance & Properties:

Appearance & Odour: Clear colourless liquid. Mild amine odour.
Melting/softening point: No specific data. Based on data for ingredients, expected to be about -30°C
Boiling point and vapour pressure: No specific data. Based on ingredient data expected to be above 200°C at 100kPa
Volatile materials: Expected to be low at 100°C
Flashpoint: Not flammable.
Specific gravity: Approx 1.0
Solubility in water: Soluble.
Corrosiveness: Not corrosive.

Ingredients: Chemical entity	CAS No	Proportion %	Worksafe Exposure Limits	
			TWA mg/m ³	STEL mg/m ³
diethyl glycol monobutyl ether	112-34-5	65	not set	not set
N-methyl 2- pyrrolidone	872-50-4	33	not set	not set
Hdroxxpropylmethyl cellulose	9004-65-3	2	not set	not set

This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely.

II HEALTH HAZARD DATA

Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

Acute Effects:

Swallowed: Data suggests that the product should be considered to be non toxic by ingestion.

Eye: Data suggests that this product should be classified as irritating to the eyes. May cause problems including corneal damage or transient blindness if contact is not treated promptly.

Skin: Data suggests that the product should be classified as irritating in contact with the skin. May cause symptoms ranging from itching to redness and blisters if not treated promptly.

Inhalation: Data suggests that the product should be considered to be non irritating and non toxic by inhalation.

Primary route of exposure is inhalation and skin and eye contact.

LD₅₀ Oral (Rat) (diethyl glycol monobutyl ether) 5660mg/kg; for mouse 2400mg/kg

LD₅₀ Oral (Rat) (N-methyl 2-pyrrolidone) 3600mg/kg Inhalation LC₅₀ (Rat) >5.1mg/L/4hr

First Aid:

If poisoning occurs, contact a Doctor or Poisons Information Centre.

If swallowed, do NOT induce vomiting. Give a glass of water.

Eye: If this product comes into contact with eyes, hold open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained.

Skin: If this product comes into contact with skin, wash skin for at least 15 minutes with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again.

Inhalation: If mists, dusts or combustion products are inhaled, remove to fresh air. Lay victim down & keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately. Eye wash stations or baths and deluge showers should be available where product is being used.

Advice to doctor: Treat symptomatically. Note the nature of this product.

III PRECAUTIONS FOR USE

Combination Risk Phrases are: R36/38. Irritating to eyes and skin.

Exposure Standards:

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the significant ingredients in this product. There is a blanket recommendation of 10mg/m³ for inspirable dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. See ingredients section on page 1 of this data sheet.

Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection:

Respiratory Protection: A face mask or respirator may be used when the product is being used in dusty or confined areas. Otherwise it is usually safe to not use respiratory protection. However, there may be other circumstances where use of a mask or other device is preferred. Use judgement. For help in selecting suitable equipment consult AS/NZS 1715.

Protective Gloves: Rubber, or other protective gloves should be used other than for brief use. Failure to use gloves may result in skin irritation and symptoms ranging from redness and itching to blisters and even burns. For help in selecting suitable gloves consult AS 2161. Do not use PVC.

Eye Protection: Goggles or full face shield must be used when using this product. Failure to do so may result in eye damage if an accident occurs. Consult AS 1336 and AS/NZS 1337 for information about eye protection.

Clothing: Clean overalls should be worn, preferably with an apron. Consult AS 2919 for advice on Industrial Clothing. All skin areas must be covered.

Safety Boots: Wearing safety boots is advisory. Consult AS/NZS 2210 for advice on Occupational Protective Footwear.

Flammability Limits: Upper: 5.9%, Lower: 0.9% (diethyl glycol monobutyl ether)

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

IV SAFE HANDLING INFORMATION

Safety Phrases are: S41. Combination Safety Phrases are: S24/25. In case of fire and/or explosion, do not breathe fumes. Avoid contact with skin and eyes.

Storage & Transport:

No special storage and transport requirements. This material has no UN Classification. Not a Scheduled Poison. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not come into contact with products listed under "Materials to avoid" below.

Spills and disposals:

In event of a major spill, prevent spillage from entering drains or water courses. Call Fire Brigade or emergency services. Wear full protective clothing including self contained breathing apparatus. Stop leak if safe to do so, and contain spill. Absorb onto vermiculite or other absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area, preventing runoff from entering drains. This material may be suitable for approved landfill. Dispose of only in compliance with local, state and federal regulations. Launder all contaminated clothing before re-use.

Fire/Explosion Hazard:

There is no explosion hazard from this material under normal circumstances.

Flashpoint: Not flammable.

Extinguishing Media: carbon dioxide, dry chemical, foam, water fog.

Special Fire fighting procedures: Wear full protective clothing including self contained breathing apparatus.

Unusual fire & Explosion hazards: Decomposition products are toxic and corrosive. There is little or no risk of an explosion from this product if involved in a fire.

Stability: Stable.

Polymerisation: Will not polymerise.

Decomposition Products: carbon dioxide, carbon monoxide and smoke (if combustion is incomplete), nitrogen oxides, water.

Materials to avoid: strong acids, strong bases, strong oxidising agents.

V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

National Poisons Information Centre: Dial 13 1126 (from anywhere in Australia)

This MSDS prepared by Kilford & Kilford Pty Ltd, March, 2005

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