



THE TRADE PLACE PTY LTD
17 RICHARDS ROAD
HOPPERS CROSSING VIC 3029
P] 1300 558 717 F] (03) 83607309

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

Product Name: ET-1000 **Dated From:** 01/09/2008
Other Names:
Uses: Glass Adhesion Promoter
Classification of Hazardous nature: Not classified as Hazardous according to criteria of NOHSC, and not Dangerous Goods according to the ADG Code.

COMPOSITION/INFORMATION ON INGREDIENTS

Information on Ingredients/Hazardous Components

Secret Component

CAS-No. -2530-83-8- EC-No -219-784-2-

See **Other Information** for text of risk phrases

HAZARD IDENTIFICATION

Not classified as Hazardous according to criteria of NOHSC, and not Dangerous Goods according to the ADG Code.

FIRST AID MEASURES

General Advice: Take off all contaminated clothing immediately.
Inhalation: If aerosols or mists are formed:
Take affected persons out into the fresh air.
In case of persistent discomfort: Consult doctor immediately.
Skin: Wash off immediately with plenty of water.
In case of discomfort: Supply with medical care.
Eyes: Keeping eyelid open, immediately rinse thoroughly for at least 5 minutes using plenty of water or, if necessary, eye rinsing solution.
In case of persistent discomfort: consult an ophthalmologist.
Ingestion: Have the mouth rinsed with water.
Call a physician immediately.
Notes to Physician: After absorbing large amounts of substance:
Liberation of reaction products (Methanol) can lead to symptoms of poisoning.
Possible signs of poisoning:
Daze, dizziness, nausea, colicky abdominal pain, respiratory disturbance.
Symptoms upon increasing intoxication: dysopia, loss of eyesight.
Treatment:
Immediate gastric lavage. Antidote treatment, correction of acid-base balance.
Detection of substance (Methanol) possible in:
Blood
Antidote treatment: ethanol.

FIRE FIGHTING MEASURES

Extinguishing Media: Foam, water spray, CO₂, dry powder.

Special Protective Equipment for Fire Fighters:

In case of fire: Have wear a self contained respiratory apparatus.

ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Do not inhale vapours/aerosols.

Environmental Precautions:

Do not allow substance entrance in soil, stretches of water, drainage systems.
Should not be released into the environment.

Methods for Cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Transfer into suitable containers.

To be disposed of in compliance with existing regulations.

Suitable binder: Sand (for damming up), sawdust, universal absorbent

HANDLING AND STORAGE

Handling

Safe Handling Advice:

Observe the rules usually applicable when handling chemicals.

Application, processing: Provide good ventilation or extraction.

Advice on Protection Against Fire and Explosion:

Keep away from sources of ignition – no smoking.

Storage

Requirements for Storage Areas and Containers:

Keep containers tightly closed in a cool, well-ventilated place.

Protect from moisture.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures

Provide good ventilation if vapours/aerosols are formed.

Personal Protective Equipment

Respiratory Protection

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter (filter type ABEK) or wear a self contained respiratory apparatus.

Hand Protection

Glove Material: for example, butyl-rubber

Material Thickness: 0.5mm

Break Through Time: ≥ 480 min

Glove Material: for example, Fluorinated rubber (Viton)

Material Thickness: 0.4mm

Break Through Time: ≥ 480 min

Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers. The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials.

Remember that the useful time per day of a chemical protection glove may be much shorter than the permeation time determined according to EN374 due to the many different influential factors involved (e.g. temperature).

Eye Protection: Safety glasses

Hygiene measures: Do not inhale vapours/aerosols.

Avoid contact with skin and eyes.

Do not wear contaminated clothing.

Smoking, eating and drinking should be prohibited in the application area.

PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form: Liquid
Colour: Colourless

Safety Data

pH: Not determined

Boiling point/range: 90°C (0.7 hPa)
Method: DIN 51 356

Flash Point: 122°C
Method: DIN 51758

Ignition Temperature: 400°C
Method: DIN 51794

Lower Explosion Limit: 0.43% (V) (157°C)
Method: DIN 51649

Upper Explosion Limit: Not to be determined

Vapour Pressure: <0.1 hPa (20°C)

Density: ca. 1.07g/cm³ (20°C)
Method: DIN 51757

Water Solubility: Not Miscible
Decomposition by hydrolysis

Viscosity, dynamic: 3.65 mPa.s (20°C)

STABILITY AND REACTIVITY

Materials to Avoid: Peroxide, water

Hazardous Decomposition Products: Methanol in case of hydrolysis.

Hazardous Reactions: Exothermic reaction with: peroxides

TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50 Rat: 8030 mg/kg
Lit. (1)
Possibly harmful (methanol in case of hydrolysis)

Acute inhalation toxicity: Possibly harmful (methanol in case of hydrolysis)

Acute dermal toxicity: LD50 Rabbit: 4248 mg/kg
Lit. (2)

Skin Irritation: Not irritating
Lit. (1)

Eye Irritation: Slightly irritating
Lit. (1)

Sensitization: Not sensitizing
Method: Buehler Test
Lit. (1)

Gentoxicity in Vivo: No evidence of mutagenic effects

Mutagenicity Assessment: In vitro tests have revealed a mutagenic potential of the product.

Further Information: Lit. (1)
Own study
Lit. (2)
RTECS

ECOLOGICAL INFORMATION

Elimination Information (persistence and degradability)

Biodegradability: Result: 37%
Method: EC 79/831

Behavior in environmental compartments

Toxicity to fish: LC50 Cyprinus carpio: 55 mg/l / 96h
Method: EC 92/69

LC0 Cyprinus carpio: 30 mg/l / 96h
Method: EC 92/69

Toxicity to daphnia: EC50 Daphnia magna: 473 mg/l / 48h
Method: EC 92/69

NOEC Daphnia magna: 100 mg/l / 504h
Method; OECD 202 part 2

Toxicity to algae: EC50 scenedesmus subspicatus: 255 mg/l / 72h
Method: EC 92/69

NOEC scenedesmus subspicatus: 53 mg/l / 72h
Method: EC 92/69

Toxicity to bacteria: EC 10 Pseudomonas putida: 1500 mg/l / 5h
Method: Bringmann und kuhn, Z.Wasser Abwasser Forsch. 10, 87-98 (1977) tested in the presence of emulsifiers.

DISPOSAL CONSIDERATIONS

Product

With respect to local regulations, e.g. dispose of to suitable waste incineration plant. No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

The waste key number must be determined as per the European waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm/producing firm/official authority.

TRANSPORT INFORMATION

Transport/Further Information

Not classified as dangerous in the meaning of transport regulations.

REGULATORY INFORMATION

Labelling according to EC Directives

Statutory Basis/List: Not subject to labeling provisions by Directive 67/548/EEC

National Legislation

OTHER INFORMATION

Risk phrase (R phrase) texts

Further Information

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

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