

Material Safety Data Sheet

Not Hazardous According to Criteria of NOHSC

Date of issue: 20.01.2007

Replaces Data Sheet of : ---

"**" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

1 CHEMICAL PRODUCT AND COMPANY NAME

Trade Name : Nanokote Glass & Ceramics Pre-Cleaner DIY

Intended use

Cleaner for glass, mirror, ceramics and stainless steel

Address of the Company / Supplier:

Nanokote Pty Ltd. 6-8 England Street, Dandenong, Victoria, Australia.

Tel: +61 3 9768 3277; Fax: +61 3 9768 3986

Emergency - Telephone

Poisons Information Centre

Tel: 131126 (within Australia)

NANO⁹KOTE
CREATED USING NANOTECHNOLOGY

1 HAZARDS IDENTIFICATION

Not Hazardous According to Criteria of the National Occupational Health & Safety Commission of Australia

Hazard category: NONE ALLOCATED

Hazard Classification: NONE ALLOCATED

RISK PHRASES

R 36: Irritating to eyes.

SAFETY PHASES

S 2: Keep out of reach of children.

S 7: Keep container tightly closed.

S 16: Keep away from sources of ignition - No smoking.

S 24 / 25: Avoid contact with skin and eyes.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46: If swallowed, seek medical advice immediately and show this container or label.

POISON SCHEDULE: NONE ALLOCATED

UN No.: NONE ALLOCATED

Poison Schedule: NONE ALLOCATED

WARNING STATEMENT:

NONE ALLOCATED

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation:

2-Propanol mixture of additives

Dangerous Ingredients:

CAS No.	Material	m% - range
67-63-0	2-Propanol	0-20
111-76-2	2-Butoxy Ethanol	0-5

All other ingredients determined not to be hazardous

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4 FIRST AID MEASURES

Inhalation: Remove from danger area and provide for fresh air. In the event of symptoms occurring, seek medical treatment.

Skin Contact : In case of contact with skin wash off immediately with water. In the event of symptoms occurring, seek medical treatment.

Eye Contact : Flush eyes out immediately with large amounts of water with eye lids lifted. If irritation persists consult physician.

Ingestion : **DO NOT INDUCE VOMITING.** Rinse mouth out and drink plenty of water. Consult physician.

Note to Physician: The following symptoms may occur: nausea vomiting headache, confusion. Symptomatic treatment.

5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media : Water spray jet, foam, dry chemicals, CO₂.

Extinguishing Media to Avoid : None.

Fire and Explosion Hazards : In case of fire, product may form: Organic crack products and carbon oxides.

Special Protective Equipment : Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

Hazchem Code : None Allocated

Flammability : None

Flash Point : N/A

Flammability Limits : LEL : UEL :

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions : Keep unnecessary people away. Ventilate area. Wear suitable personal protective equipment as outlined under personal protection in this MSDS.

Environmental Precautions and Methods for Cleaning up :

Do not allow larger quantities to enter drainage. Do not discharge into surface waters / groundwater. Inform responsible authorities after accidental conduction of larger quantities. Take up with suitable absorbent material. Dispose of absorbed material in accordance with the regulations.

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7 HANDLING AND STORAGE

Handling

Precautions for Safe Handling : Provide good room ventilation even at ground level (vapours are heavier than air). Keep container tightly closed. Close container straight after use or if empty.

Precautions in Case of Fire and Explosion :

Keep away from sources of ignition, do not smoke.

Storage

Storage Instructions : Floor must be resistant against solvents.

Store away from : Store away from oxidizers, oxidizing substances.

Further Information on Storage Conditions :

Protect from sun. Protect from warming up / overheating.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Information on System Design : Provide for sufficient exhaustion. Provide personal protective equipment.

Exposure Limits:

Material

2 Butoxy Ethanol

Limit Value :

[TWA] 25 ppm 121 mg/m³

Personal Protective Equipment

General Protection and Hygiene :

Avoid contact with eyes and skin. Do not inhale vapours. Remove contaminated, saturated clothing immediately. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Respiratory Protection :

If ventilation is insufficient, wear respiratory protection (Short term: filter apparatus, Filter A)

Hand Protection :

Gloves (solvent-resistant) (Viton, permeation time >4h)

Eye Protection :

Goggles

Skin Protection :

No.

Further Information :

Refer to special restrictions in wearing protective equipment

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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
 Colour : Clear
 Odour : alcohol-like

Safety Relevant Data

pH-value, undiluted : 4.5, pH-value, 10% aqueous solution : n.av
 Boiling point / Boiling - range (°C) : n.av, Melting point / Melting range (°C) : 100
 Flash point (°C) : n.av
 Flammability : No
 Ignition temperature (°C) : n.av
 Autoflammability : n.av
 Explosion hazard : No.
 Flammability limits (Vol.%) : lower : n.av, upper : n.av
 Vapour pressure : n.av
 Density (g/ml) : 1.00 (17°C)
 Solubility (in Water) : miscible
 Partition coefficient, n-Octanol/Water : n.av.
 Viscosity : n.av
 Solvent separation test : n.av.
 Solvent content (m %) : > 10%

Further Data

Thermal decomposition (°C) : n.av.
 Vapour density (Air = 1) : n.av
 Evaporation rate (BuAc = 1) : n.av

10 STABILITY AND REACTIVITY

Conditions to Avoid : Sparks, flames, static charge
 Materials to Avoid : Reactions with strong oxidizing agents.
 Hazardous Decomposition Products : No dangerous decomposition products when properly handled.

11 TOXICOLOGICAL INFORMATION

Acute Health Effects :

Inhalation, LC50 rat, (mg/l/4h) : n.av
 Ingestion, LD50 rat, (mg/kg) : n.av
 Skin - contact, LD50 rat, (mg/kg) : n.av (Degreases skin)
 Irritation (to skin / eye) : Irritating to eyes. Not to be labelled
 Sensitisation : None

Subacute / Chronic Toxicity :

Carcinogenicity : n.av.
 Mutagenicity : n.av.
 Teratogenicity : n.av.
 Narcotic Effects : Inhalation of solvent-vapours in high concentration causes narcotic effects.

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12 ECOLOGICAL INFORMATION

Ecotoxic Effects, Aquatic Toxicity :	According to present knowledge no negative ecological reactions are to be expected.
Behaviour in Sewage Works :	
Mobility and Accumulation Potential :	n.av.
Elimination (Persistence and Degradability) :	The product is biodegradable.
Other Ecological Information	
COD-Value, mg/g :	n.av.
BOD ₅ -Value, mg/g :	n.av.
AOX-Remarks :	n.ap.
Significant Components :	Not relevant
Other adverse effects :	None.

13 DISPOSAL CONSIDERATIONS

Residuals:	Comply with the local authorities.
Safe Handling:	See item 7 and 15.
Contaminated Packaging	
Recommendation :	Wash with suitable cleaner. Otherwise as described under Residues.
Safe Handling :	As described under Residues.

14 TRANSPORT INFORMATION

Transportation by Road or Railway

UN Number :
 Dangerous Goods Class :
 Packing Group :
 Proper Shipping Name :
 Labels :

Air Transport

UN Number :
 Dangerous Goods Class :
 Packing Group :
 Proper Shipping Name :
 Labels :

Marine Transport

UN Number :
 Dangerous Goods Class :
 Packing Group :
 Proper Shipping Name :
 Labels :
 Marine Pollutant :

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15 REGULATORY INFORMATION

Classification Regulations :

Classification required :	No
Applicable Exemptions :	No
Hazard Identification :	None
Component(s) :	
Additional Markings :	None

The above mentioned labelling is valid for distribution to industrial user. Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

16 OTHER INFORMATION

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.