

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

PRODUCT NAME: CL 50

SYNONYMS:

PRODUCT CODES:

MANUFACTURER: Nanovations Pty Ltd

DIVISION:

ADDRESS: Frenchs Forest NSW 2086, Australia

EMERGENCY PHONE: + 612 9975 5602

CHEMTREC PHONE: 1 (800) 424-9300

OTHER CALLS:

FAX PHONE: +612 8252 0898

CHEMICAL NAME:

CHEMICAL FAMILY:

CHEMICAL FORMULA:

PRODUCT USE: Water based , abrasive glass cleaner , Abrasive wet wipe sachets for glass

PREPARED BY: Nanovations Pty Ltd

SECTION 1 NOTES:

Section 2. Composition, Information on Ingredients

Name	CAS	%	ACGIH TL	OSHA PEL
Iso Propyl Alcohol	67-63-0	1-4 %	400 ppm	400 ppm / 980 mg /cbm
Silica fumed (SiO ₂)	14808-60-7	< 5 %	N/A	N/A
Sodium N-Lauroylsarc °Alkyl	137-16-6	0.1 %	1000 ppm	1000 ppm.
Water		60 - 100 %	N/A	N/A

Section 3. Hazard Identification

Eye Contact: Irritating to the eye

Skin Contact: No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness.

Chemically sensitive individuals may experience mild irritation.

Ingestion: May cause stomach or intestinal irritation if swallowed.

Inhalation: Do not inhale fumes.

Section 4. First Aid Measures

Eye contact : Rinse with plenty of water. Get medical attention if irritation develops and persists

First aid following skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

First aid following eye contact

Use moisturizing hand crème

Immediately hold eyelids apart and thoroughly rinse eyes under clean, running water. Consult a physician.

First aid following swallowing

Give a copious amount of water to drink. Do not induce vomiting. (danger of perforation!). Seek medical attention.

Inhalation :

Remove to fresh air.

Section 5. Fire Fighting Measures

Suitable extinguishing agents

The product itself is non-inflammable. No hazardous decomposition products.

Special protective gear during fire fighting

none

Specific hazards:

Not applicable

Flash point : 143 °F

Flash point : 62 °C

Lower explosion limit : Note: no data available

Upper explosion limit : Note: no data availab

Section 6. Accidental Release Measures

Technical safety measures

Not applicable.

Personal safety measures

Avoid contact with the eyes and skin. Wear suitable gloves (see also sections 7 and 8). Protective goggles/face mask.

Environmental protection measures

Do not allow the substance to contaminate the soil, sewerage system or bodies of water.

Cleaning procedure

Soak up any liquid that escapes with absorbent material and dispose of according to the local regulations in sealed containers. Subsequently clean with suitable binding agents (for example sand (to contain the liquid) or a universal binder (for example Chemisorb)

Section 7. Handling and Storage

Handling

Instructions for safe handling

Avoid aerosols generation.. Keep containers tightly sealed.

Instructions concerning fire and explosion protection

Not applicable.

Storage

Warehouse and container specifications

Store in tightly sealed containers,

Only store in original containers. Do not use containers made of metal (danger of corrosion).

Storage class (VCI): 12 (non-inflammable liquid)

VbF: Europe: not applicable

Section 8. Exposure Controls, Personal Protection

Provide personal protective equipment.

Exposure Limits:

Isopropanol CAS No.: 67-63-0

OSHA PEL

The current Occupational Safety and Health Administration (OSHA) permissible exposure limit (PEL) for isopropyl alcohol is 400 ppm (980 milligrams per cubic meter (mg/m(3))) as an 8-hour time-weighted average (TWA) concentration [29 CFR 1910.1000, Table Z-1].

NIOSH REL

The National Institute for Occupational Safety and Health (NIOSH) has established a recommended exposure limit (REL) for isopropyl alcohol of 400 ppm (980 mg/m(3)) as a TWA for up to a 10-hour workday and a 40-hour workweek and a short-term exposure limit (STEL) of 500 ppm (1225 mg/m(3)) for periods not to exceed 15 minutes. Exposures at the STEL concentration should not be repeated more than four times a day and should be separated by intervals of at least 60 minutes [NIOSH 1992].

ACGIH TLV

The American Conference of Governmental Industrial Hygienists (ACGIH) has assigned isopropyl alcohol a threshold limit value (TLV) of 400 ppm (983 mg/m(3)) as a TWA for a normal 8-hour workday and a 40-hour workweek and a short-term exposure limit (STEL) of 500 ppm (1230 mg/m(3)) for periods not to exceed 15 minutes [ACGIH 1994, p. 24].

Rationale for Limits

The NIOSH limits are based on the risk of mucous membrane irritation; carcinogenic effects [NIOSH 1992].

The ACGIH limits are based on the risk of eye, nose, and throat irritation [ACGIH 1991, p. 829].

Personal Protective Equipment

General Protection and Hygiene :

Avoid contact with eyes and skin. Do not eat, drink or smoke during work. Take off contaminated, saturated clothing immediately. Do not inhale vapours.

Respiratory Protection : No.

Hand Protection : Gloves (solvent-resistant) (Butyl, Permeation time > 4 h)

Eye Protection : Tightly fitting goggles

Skin Protection : Light protective clothing

Further Information : Refer to special restrictions in wearing protective equipment

Section 9. Physical and Chemical Properties

Apperance	Clear blueish	Odor	Slightly alcoholic
PHYSICAL STATE:	Liquid	pH AS SUPPLIED:	7.5 – 8
BOILING POINT F: C:		MELTING POINT F: C:	
VAPOR PRESSURE (mmHg): @ C: F:		VAPOR DENSITY (AIR = 1): @ C: F:	
VOLATILE ORGANIC COMPOUNDS (VOC):	50 g / litre	MOLECULAR WEIGHT: VISCOSITY:	
SPECIFIC GRAVITY (H2O = 1):	0.96 0.96 g / ml	Flashpoint	F: >142 C: > 62
EVAPORATION RATE: BASIS (=1):		SOLUBILITY IN WATER	yes

Section 10. Stability and Reactivity

STABILITY: product is stable

CONDITIONS TO AVOID (STABILITY): N/A

INCOMPATIBILITY (MATERIAL TO AVOID): N/A

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N/A

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): N/A

Section 11. Toxicological Information

Acute oral toxicity : LD50

Dose: estimated > 5,000 mg/kg

Acute inhalation toxicity : LC50 rat

Dose: > 2.5 mg/l

Acute dermal toxicity : LD50 rabbit

Dose: estimated > 2,000 mg/kg Oral not tested .

(Sub)acute to chronic toxicity

No risk of damage to fertility will occur if the industrial safety limit values are complied with.

Primary irritancy

Skin: results in slight irritation. High concentrations are harmful to the mucosae, eyes and skin.

Eyes: Exposure to the eyes can cause irritation.

Section 12. Ecological Information

Eco-toxicity No Data

Persistence Potential This product is readily biodegradable.

Section 13. Disposal Considerations

Material Disposal : Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognized collector or contractor.

Container Disposal : Drain container thoroughly.

Section 14. Transport Information

14.1 Road transport:
U.S. DOT and Canadian TDG Surface Transportation:

NA number 1993
Class: Combustible Liquid N.O.S
Packaging group: PG III

Nanovations ships this product as "Non-Regulated" per DOT exception for Combustible Liquids. (49 CFR 173.150)

14.2 Sea transport:
Marine transport IMDG
Not regulated,

14.3 Air transport:
Not regulated

Section 15. Regulatory Information

U.S. Regulations US INVENTORY (TSCA): Listed on inventory.

Other Regulations AUSTRALIAN INVENTORY (AICS): inventory.
CANADA INVENTORY (DSL): Listed on inventory.
CHINA INVENTORY (IECS): Listed on inventory.
EC INVENTORY (EINECS/ELINCS): Listed on inventory.
JAPAN INVENTORY (ENCS): Listed on inventory.
KOREA INVENTORY (ECL): Listed on inventory.
Australian Hazchem Code: No information found.

R-phrases and S-phrases

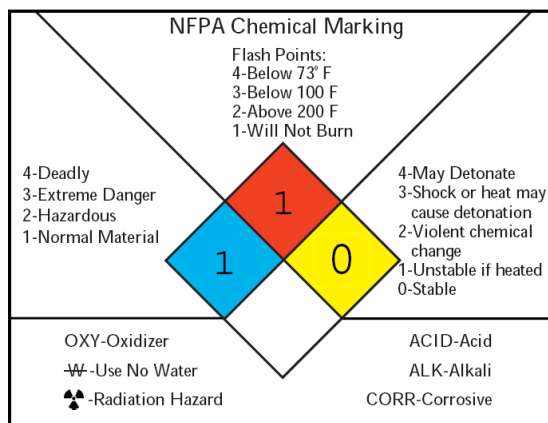
(S2): Keep out of the reach of children

R36/38: Irritating to eyes and skin

Section 16. Other Information

Hazardous Material
Information System
(U.S.A.)

HEALTH	1	
FIRE HAZARD	1	
REACTIVITY	0	



Section 17. Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.