

Material Safety Data Sheet

ADOS LEAKSTOP

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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name

ADOS LEAKSTOP

Product Code

8422

Company Name

ALLPROOF INDUSTRIES

Address

17 Bay Park Place Beach Haven
New Zealand

Telephone/Fax Number

Tel: 09 481 8020

Recommended Use

Used according to manufacturer's directions.

The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing.

Before starting consider control of exposure by mechanical ventilation.

Leak proofing sealant for construction.

2. HAZARD IDENTIFICATION

Hazard Classification

HAZARDOUS SUBSTANCE.

DANGEROUS GOODS.

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Risk Phrase(s)

Classified as hazardous according to criteria of NOHSC

Other Information

GHS Classification:

Acute Aquatic Hazard Category 2

Acute Toxicity (Oral) Category 4

Eye Irritation Category 2A

Flammable Liquid Category 2

Organ Damage Category 2

Reproductive Toxicity Category 2

Respiratory Irritation Category 3

Skin Corrosion/Irritation Category 2

Emergency overview:

HAZARD:

DANGER.

Determined by Chemwatch using GHS/HSNO criteria:
3.1B 6.1D 6.3A 6.4A 6.8B 6.9B 9.3C 9.1B.
Highly flammable liquid and vapour.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure by inhalation.
Harmful to terrestrial vertebrates.
Toxic to aquatic life.

Precautionary statements:

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment
Use only non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapours/spray.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.

Response

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTER or doctor/physician if you feel unwell.
Get medical advice/attention if you feel unwell.
Rinse mouth.
If eye irritation persists: Get medical advice/attention.

Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

| Name | CAS | Proportion |
|--|------------|------------|
| TOLUENE | 108-88-3 | 20-40 % |
| Mineral oil | Not avail. | 0-5 % |
| Ingredients determined not to be hazardous | | 50-70 % |

4. FIRST-AID MEASURES

First Aid Measures

NEW ZEALAND POISONS INFORMATION CENTRE 0800 POISON (0800 764 766).

NZ EMERGENCY SERVICES: 111.

Inhalation

If fumes or combustion products are inhaled remove from contaminated area.

Lay patient down. Keep warm and rested.

Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.

Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained.

Perform CPR if necessary.

Ingestion

If swallowed do NOT induce vomiting.

If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

Observe the patient carefully.

Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.

Avoid giving milk or oils.

Avoid giving alcohol.

If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Skin

If skin contact occurs:

Immediately remove all contaminated clothing, including footwear.

Flush skin and hair with running water (and soap if available).

Seek medical attention in event of irritation.

Eye

If this product comes in contact with the eyes:

Wash out immediately with fresh running water.

Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

Seek medical attention without delay; if pain persists or recurs seek medical attention.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Advice to Doctor

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically.

Following acute or short term repeated exposures to toluene:

Toluene is absorbed across the alveolar barrier, the blood/air mixture being 11.2/15.6 (at 37°C.) The concentration of toluene, in expired breath, is of the order of 18 ppm following sustained exposure to 100 ppm. The tissue/blood proportion is 1/3 except in adipose where the proportion is 8/10.

Metabolism by microsomal mono-oxygenation, results in the production of hippuric acid. This may be detected in the urine in amounts between 0.5 and 2.5 g/24 hr which represents, on average 0.8 gm/gm of creatinine. The biological half-life of hippuric acid is in the order of 1-2 hours.

Primary threat to life from ingestion and/or inhalation is respiratory failure.

Patients should be quickly evaluated for signs of respiratory distress (eg cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases ($pO_2 < 50$ mm Hg or $pCO_2 > 50$ mm Hg) should be intubated.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray or fog.

Alcohol stable foam.

Dry chemical powder.

Carbon dioxide.

Suitable container:

Packing as supplied by manufacturer.

Plastic containers may only be used if approved for flammable liquid.

Check that containers are clearly labelled and free from leaks.

For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): Where a can is to be used as an inner package, the can must have a screwed enclosure.

For materials with a viscosity of at least 2680 cSt. (23°C)

For manufactured product having a viscosity of at least 250 cSt. (23°C)

Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25°C).

Storage incompatibility:

Avoid reaction with oxidising agents.

Storage requirements:

Store in original containers in approved flame-proof area.

No smoking, naked lights, heat or ignition sources.

DO NOT store in pits, depressions, basements or areas where vapours may be trapped.

Keep containers securely sealed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

| Source | Material | TWA ppm | TWA mg/m ³ | Notes |
|--|-------------------|---------|-----------------------|-------|
| New Zealand Workplace Exposure Standards (WES) | Toluene (Toluene) | 50 | 188 | Skin |

Engineering Controls

For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required.

Ventilation equipment should be explosion-resistant.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Type of Contaminant: | Air Speed: |
|--|------------------------------|
| Solvent, vapours, degreasing etc., evaporating from tank (in still air). | 0.25-0.5 m/s (50-100 f/min.) |
| Aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation). | 0.5-1 m/s (100-200 f/min.) |
| Direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion). | 1-2.5 m/s (200-500 f/min.) |

Respiratory Protection

Type A Filter of sufficient capacity.

Eye Protection

Safety glasses with side shields.

Chemical goggles.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Hand Protection

Wear chemical protective gloves, eg. PVC.
Wear safety footwear or safety gumboots, eg. Rubber.

Personal Protective Equipment

Other:
Overalls.
PVC Apron.
PVC protective suit may be required if exposure severe.
Eyewash unit.
Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.
For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets), non sparking safety footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical properties:
Does not mix with water.

Appearance

Black viscous paste with a solvent odour; not miscible with water.

Decomposition Temperature

Not Available.

Melting Point

Not Available.

Boiling Point

111°C (initial).

Solubility in Water

Immiscible.

Specific Gravity

Not Available.

pH Value

Not Applicable (1% solution).
Not Applicable (as supplied).

Vapour Pressure

Not Available.

Vapour Density (Air=1)

> 1.

Evaporation Rate

Not Applicable.

Physical State

Free-flowing Paste.

Viscosity

Not Available.

Volatile Component

Not Available.

Flash Point

4°C (toluene).

Auto-Ignition Temperature

Not Available.

Molecular Weight

Not Applicable.

Explosion Limit - Upper

Not Available.

Explosion Limit - Lower

Not Available.

10. STABILITY AND REACTIVITY

Stability and reactivity

Conditions contributing to instability:

Presence of incompatible materials.

Product is considered stable.

Hazardous polymerisation will not occur.

For incompatible materials - refer to Section 7 - Handling and Storage.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Toxicity and irritation:

MINERAL OIL:

TOLUENE:

Unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

Unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis.

For toluene:

Acute Toxicity:

Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death. Similar effects are observed in short-term animal studies.<</>.

TOLUENE:

TOXICITY

IRRITATION

Oral (human) LDLo: 50 mg/kg Skin (rabbit):20 mg/24h- Moderate

Oral (rat) LD50: 636 mg/kg Skin (rabbit):500 mg - Moderate

Inhalation (human) TCLo: 100 ppm Eye (rabbit):0.87 mg - Mild

Inhalation (man) TCLo: 200 ppm Eye (rabbit): 2 mg/24h - SEVERE

Inhalation (rat) LC50: > 26700 ppm/1h Eye (rabbit):100 mg/30sec - Mild

Dermal (rabbit) LD50: 12124 mg/kg

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis.

For toluene:

Acute Toxicity:

Humans exposed to intermediate to high levels of toluene for short periods of time experience adverse central nervous system effects ranging from headaches to intoxication, convulsions, narcosis, and death. Similar effects are observed in short-term animal studies.<</>.

MINERAL OIL:

Toxicity and Irritation data for petroleum-based mineral oils are related to chemical components and vary as does the composition and source of the original crude.

A small but definite risk of occupational skin cancer occurs in workers exposed to persistent skin contamination by oils over a period of years.

Petroleum oils which are solvent refined/extracted or severely hydrotreated, contain very low concentrations of both.

Inhalation

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Skin

Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.

| | | | |
|---------|---|-------|------|
| Toluene | New Zealand Workplace Exposure Standards (WES) - Skin | Notes | Skin |
|---------|---|-------|------|

Eye

The liquid produces a high level of eye discomfort and is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated.

Evidence exists, or practical experience predicts, that the material may cause severe eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Eye contact may cause significant inflammation with pain.

Chronic Effects

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Serious damage (clear functional disturbance or morphological change which may have toxicological significance) is likely to be caused by repeated or prolonged exposure. As a rule the material produces, or contains a substance which produces severe lesions.

Exposure to the material may cause concerns for humans owing to possible developmental toxic effects, generally on the basis that results in appropriate animal studies provide strong suspicion of developmental toxicity in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of other toxic effects.

On the basis, primarily, of animal experiments, concern has been expressed by at least one classification body that the material may produce carcinogenic or mutagenic effects; in respect of the available information, however, there presently exists inadequate data for making a satisfactory assessment.

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Chronic toluene habituation occurs following intentional abuse (glue sniffing) or from occupational exposure. Ataxia, incoordination and tremors of the hands and feet (as a consequence of diffuse cerebral atrophy), headache, abnormal speech, transient memory loss, convulsions, coma, drowsiness, reduced colour perception, frank blindness, nystagmus (rapid, involuntary eye-movements), hearing loss leading to deafness and mild dementia have all been associated with chronic abuse.

Reproductive Toxicity

| | | |
|---------|--|-----------------------------------|
| Toluene | ILO Chemicals in the electronics industry that have toxic effects on reproduction | Reduced fertility or sterility |
|---------|--|-----------------------------------|

Carcinogenicity

| | | |
|---------|---|---------|
| Toluene | International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs | Group 3 |
|---------|---|---------|

12. ECOLOGICAL INFORMATION

Ecological information

Toluene 96 hr LC50 (8.11) mg/L Coho salmon, silver salmon Fish Source: Experimental.

This material and its container must be disposed of as hazardous waste.

Ecotoxicity

| Ingredient | Persistence: | | Bioaccumulation | Mobility |
|------------|--------------|-----|-----------------|----------|
| | Water/Soil | Air | | |
| Toluene | LOW | MED | LOW | MED |

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Containers may still present a chemical hazard/danger when empty.

Return to supplier for reuse/recycling if possible.

Otherwise:

If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

DO NOT allow wash water from cleaning or process equipment to enter drains.

It may be necessary to collect all wash water for treatment before disposal.

In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.

Where in doubt contact the responsible authority.

Recycle wherever possible.

Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

Dispose of by: Burial in a land-fill specifically licenced to accept chemical and/or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material).

Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

14. TRANSPORT INFORMATION

Transport Information

Labels Required: FLAMMABLE LIQUID.

Land Transport UNDG:

Class or division: 3.

Subsidiary risk: None.

UN No.: 1133.

UN packing group: II.

Shipping Name: ADHESIVES containing flammable liquid ADHESIVES.

Air Transport IATA:

ICAO/IATA Class: 3.

ICAO/IATA Subrisk: None.

UN/ID Number: 1133.

Packing Group: II.

Special provisions: A3.

Cargo Only.

Packing Instructions: 307.

Maximum Qty/Pack: 60 L.

Passenger and Cargo Packing Instructions: 305.

Passenger and Cargo Maximum Qty/Pack: 5 L.

Passenger and Cargo Limited Quantity Packing Instructions: Y305.

Passenger and Cargo Limited Quantity Maximum Qty/Pack: 1 L.

Shipping Name: ADHESIVES.

Maritime Transport IMDG:

IMDG Class: 3.

IMDG Subrisk: None.

UN Number: 1133.

Packing Group: II.

EMS Number: F-E, S-D.

Special provisions: None.

Limited Quantities: 5 L.

Shipping Name: ADHESIVES containing flammable liquid.

U.N. Number

1133

Proper Shipping Name

ADHESIVES

DG Class

3

Packing Group

II

Hazchem Code

None.

IERG Number

14

15. REGULATORY INFORMATION

Regulatory information

Regulations for ingredients:

Toluene (CAS: 108-88-3) is found on the following regulatory lists;

"GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Dangerous Goods", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Pesticides", "New Zealand Inventory of Chemicals (NZIoC)", "New Zealand Workplace Exposure Standards (WES)", "OECD Representative List of High Production Volume (HPV) Chemicals", "United Nations List of Precursors and Chemicals Frequently used in the Illicit Manufacture of Narcotic Drugs and Psychotropic Substances Under International Control - Table II", "WHO Guidelines for Drinkingwater Quality - Guideline values for chemicals that are of health significance in drinking-water".

No data for Ados Leakstop.

No data for mineral oil (CAS: Not avail).

Specific advice on controls required for materials used in New Zealand can be found at <http://www.ermanz.govt.nz/search/registers.html>.

16. OTHER INFORMATION

Other Information

Version No: 2.0.

C9477EC.

Company: CRC Industries Ltd

Address:

10 Highbrook Drive

East Tamaki

Auckland,

New Zealand

Telephone: +64 9 272 2700

Fax: +64 9 274 9696

Email: customerservices@crc.co.nzWebsite: <http://www.crcindustries.com>

NEW ZEALAND POISONS INFORMATION CENTRE 0800 POISON (0800 764 766).

NZ EMERGENCY SERVICES: 111.

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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END OF MSDS

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