

MATERIAL SAFETY DATA SHEET

Brakleen X55

FILE REF.: econoclean X55

MSDS DATE: 01/05/2013

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION



Material Safety Data Sheet

SOLVENT: Brakleen X55

Infosafe™

No.

ACOF3 Issue Date April 2009 Status ISSUED by

NUPLEXIN

BS: 1.9.40

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name SOLVENT X55

Product Code 87075

Company Name APS, A Division of Nuplex Industries (Aust) Pty Ltd (ABN 25 000 045 572)

Address Unit 15, 22 Powers Road, Seven Hills, NSW, 2147;

New Zealand: Asia Pacific Specialty Chemicals (NZ) Limited, 119

Carbine Road, Mt Wellington, Auckland

Emergency Tel. Australia: 1800 022 037 (24H); New Zealand: 0800 154 666 (24H)

Telephone/Fax

Number

Tel: Australia: (02) 9839 4000; New Zealand: (09) 276 4019

Fax: Australia: (02) 9674 6225; New Zealand: (09) 276 7231

Recommended Use Industrial solvent. Restricted for professional users.

Other Names Not Available

2. HAZARDS IDENTIFICATION

Hazard

Classification Australia:

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

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.

HSNO Classification:

3.1B - Flammable Liquid: High Hazard.

6.1E - Substance that is mildly acutely toxic.

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6.3B - Substance that is irritating to the skin.

6.4A - Substance that is irritating to the eye.

6.7B - Substance that is a suspected human carcinogen.

6.8B - Substance that is a suspected human reproductive or developmental toxicant.

6.9A - Substance that is harmful to human target organs or systems.

9.1B - Substance that is ecotoxic in the aquatic environment.

Hazard statement code:

H225 Highly flammable liquid and vapour.

H305 May be harmful if swallowed and enters airways.
H316 Causes mild skin irritation.
H320 Causes eye irritation.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H371 May cause damage to organs.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement codes- prevention:
P103 Read label before use. - This statement applies only where the substance is available to the general public.
P104 Read Safety Data Sheet before use.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment. - This statement does not apply where this is the intended use.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.

Precautionary statement codes- Response:
P101 If medical advice is needed, have product container or label at hand. - This statement applies only where the substance is available to the general public.
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P370+P378 In case of fire: Use carbon dioxide, foam or dry chemical powder for extinction.
P391 Collect spillage.

SWALLOWED:
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.

INHALATION:
P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P331 Do NOT induce vomiting.

SKIN:
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON CLOTHING: Rinse immediately contaminated

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clothing and skin with plenty of water before removing clothes.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before re-use.

EYES:

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary statement codes - Storage:

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Precautionary statement codes - Disposal:

P501 In the case of a substance that is in compliance with a HSN0 approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

Risk Phrase(s) R11 Highly flammable.

R38 Irritating to skin.

R62 Possible risk of impaired fertility.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase

(s)

S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe gas/fumes/vapour/spray

S38 If insufficient ventilation, wear suitable respiratory equipment.

S51 Use only in well ventilated areas.

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

S24/25 Avoid contact with skin and eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name CAS Proportion

Solvent Naphtha,
petroleum, light
aliphatic

64742-89-8 0-100 %

Hexane 110-54-3 10-30 %

Toluene 108-88-3 <5 %

4. FIRST AID MEASURES

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Inhalation Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop seek medical attention.

Ingestion DO NOT INDUCE VOMITING. Wash out mouth with water. Where vomiting occurs naturally have victim place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If symptoms develop seek medical attention.

Eye If contact with the eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. In all cases of eye contamination it is a sensible precaution to seek medical advice.

First Aid

Facilities

Eye wash fountain, safety shower and normal wash room facilities.

Advice to

Doctor

Treat symptomatically. Potential for chemical pneumonitis.

Consider: Gastric lavage with protected airway, administration of activated charcoal. Potential for cardiac sensitisation, particularly in abuse situations. Hypoxia or negative inotropes may enhance these effects. Consider oxygen therapy. Causes CNS depression. Dermatitis may result from prolonged or repeated exposure.

Other

Information

For advice, contact a Poisons Information Centre (Phone eg Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).

5. FIRE FIGHTING MEASURES

Suitable

Extinguishing

Media Use carbon dioxide, dry chemical, and foam or water mist.

Hazards from

Combustion

Products

Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

Specific

Hazards

This product is highly flammable. Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition.

Vapour/air mixtures may ignite explosively. Flashback along the

vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

Hazchem Code 3YE

Precautions in connection with

Fire

Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

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Emergency

Procedures

Wear appropriate personal protective equipment and clothing to minimise exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unnecessary personnel. If possible contain the spill. Place inert absorbent material onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your Local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for

Safe Handling

Open containers cautiously as contents may be under pressure. Use only in a well ventilated area. DO NOT store or use in confined spaces. Do not enter these areas without respiratory protection or until the atmosphere has been checked. Keep tank covered and containers sealed when not in use. Build up of mists or vapours in the atmosphere must be prevented. Avoid inhalation of vapour and mists. Do not use near welding or other ignition sources and avoid sparks. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Do not smoke. When dealing with large quantities, repeated or prolonged exposure without protection should be prevented in order to lessen the possibility of disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for

Safe Storage

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, foodstuffs, and clothing and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Always keep in containers made of the same material as the supply container.

Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Do not stack more than 3 pallets high. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National
Exposure
Standards

No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the available exposure limits for ingredients are listed below:

National Occupational Health And Safety Commission (NOHSC),
Australia Exposure Standards:

Substance TWA

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STEL NOTICES

ppm mg/m³ ppm mg/m³

Toluene 50 191 150 574

Sk

n-Hexane 20 72 - -

-

New Zealand Occupational Safety and Health Service (OSH)

Workplace Exposure Standards:

Substance TWA

STEL NOTICES

ppm mg/m³ ppm mg/m³

Toluene 50 188 - -

Sk

n-Hexane 20 72 - -

-

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sk' notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Biological

Limit Values

Biological Exposure Indices BEI from American Conference of Industrial Hygienists (ACGIH) for ingredients are as follows:

TOLUENE [108-88-3]

Determinant Sampling Time Biological Exposure

Indice (BEI) Note

o-Cresol End of shift 0.5 mg/L in urine B

Hippuric acid End of shift 1.6 g/g Creatinine in urine B, Ns

Toluene PSW 0.05 mg/L Blood Notes

B Background. The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration which could affect interpretation of the result. Such background concentrations are incorporated in the BEI (R) value.

Ns Nonspecific. The determinant is nonspecific, since it is also observed after exposure to other chemicals.

PSW Sampling time: Prior to last shift of work week.

Engineering

Controls

Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:1997 : Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.

Respiratory

Protection If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards

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AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices.

Eye Protection Safety glasses with side shields, goggles or full-face shield as

appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection Wear gloves of impervious material. Final choice of appropriate

gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection Suitable work wear should be worn to protect personal clothing,

eg cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colourless liquid

Odour Paraffinic sweet

Melting Point Not available

Boiling Point 66-115°C

Solubility in

Water <0.1 g/L

Solubility in

Organic

Solvents Miscible in hydrocarbon solvents

Specific

Gravity 0.685-0.720 (15°C)

pH Value Not applicable

Vapour Pressure 15 kPa @ 20°C

Vapour Density

(Air=1) 3.1

Pour Point <-50 °C

Octanol/Water

Partition

Coefficient LogPow ca 4

Flash Point <-20 °C

Auto-Ignition

Temperature 350°C

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Flammable

Limits - Lower 1.00 %v/v

Flammable

Limits - Upper 7.50 %v/v

Molecular

Weight 90g/mol

10. STABILITY AND REACTIVITY

Chemical

Stability Stable, under normal conditions of use.

Conditions to

Avoid

Heat, direct sunlight, open flames or other sources of ignition.

Incompatible

Materials Strong oxidizing agents.

Hazardous

Decomposition

Products

Thermal decomposition and combustion produce noxious fumes

containing oxides of carbon.

Hazardous

Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology

Information

Information given is based on product testing, and/or similar products, and/or components.

LD50(Oral, Rat) > 2000 mg/kg

LD50 (Dermal, Rat) > 2000 mg/kg

LC50(Inhalation, Rat) > 20 mg/L/4H

Inhalation Inhalation of product vapours may cause drowsiness, dizziness and irritation of the nose, throat and respiratory system.

Ingestion Harmful: may cause lung damage if swallowed. Ingestion of this product will irritate the gastric tract causing nausea and vomiting. Aspiration into the lungs may result in chemical pneumonitis.

Skin A skin irritant. Reddening and defatting of the skin will result. May also cause allergic skin reaction with itching.

Eye May cause irritation to eyes. Symptoms may include redness, tearing, stinging and blurred vision.

Chronic Effects Danger of serious damage to health by prolonged exposure through

inhalation. Repeated inhalation or dermal exposure to n-hexane can cause peripheral neuropathy in exposed individuals.

Prolonged and repeated skin contact may cause dermatitis due to defatting effect.

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12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence /

Degradability

Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

Mobility Absorbs to soil and has low mobility. Floats on water.

Bioaccumulative

Potential Has potential to bioaccumulate.

Environment

Protection Prevent this material entering waterways, drains and sewers.

Acute Toxicity

- Fish EC50 1 - < 10 mg/l

Acute Toxicity

- Daphnia EC50 1 - < 10 mg/l

Acute Toxicity

- Algae EC50 1 - < 10 mg/l

13. DISPOSAL CONSIDERATIONS

Disposal

Considerations

Dispose of waste according to federal, EPA and state

regulations. Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then reused or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

14. TRANSPORT INFORMATION

Transport
Information

Australia:

This material is classified as a Class 3 (Flammable Liquid) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following:

- Class 1, Explosive
- Class 2.1, Flammable Gas, if both the Class 3 and Class 2.1 dangerous goods are in bulk
- Class 2.3, Toxic Gas
- Class 4.2, Spontaneously Combustible Substance
- Class 5.1, Oxidising Agent
- Class 5.2, Organic Peroxide
- Class 6.1, Toxic and Class 6.2 Infectious Substances, if the Class 3 dangerous goods are nitromethane
- Class 7, Radioactive Substance

New Zealand:

This material is classified as a Class 3 - Flammable Liquid

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according to NZS 5433:2007 Transport of Dangerous Goods on Land. Must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives
- Class 2.1, Flammable gases
- Class 2.3, Toxic gases
- Class 4.2, Spontaneously combustible substances
- Class 5.1, Oxidising substances
- Class 5.2, Organic peroxides or
- Class 7, Radioactive materials unless specifically exempted.

Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:

- Class 4.3, Dangerous when wet substances

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

- Class 4.2, Spontaneously combustible substances
- Class 4.3, Dangerous when wet substances
- Class 5.1, Oxidising substances

- Class 5.2, Organic peroxides

U.N. Number 1268

Proper Shipping

Name PETROLEUM DISTILLATES, N.O.S. - (CONTAINS SOLVENT NAPHTHA)

DG Class 3

Hazchem Code 3YE

Packing Group II

EPG Number 3A1

IERG Number 14

15. REGULATORY INFORMATION

Regulatory

Information

Australia:

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

Classified as a Scheduled Poison S5 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Poisons

Schedule S5

National and or

International

Regulatory

Information

New Zealand:

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Group Standard:

Solvents (Flammable, Toxic [6.7]) Group Standard 2006

HSNO Approval Number: HSR002652.

Hazard Category Harmful, Irritant, Highly Flammable, Dangerous for the environment

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16. OTHER INFORMATION

Date of

preparation or

last revision

of MSDS

MSDS Reviewed: April 2009

MSDS supersedes: March 2009

Contact

Person/Point

For specialist advice in emergencies: Australia 1800 022 037;

New Zealand 0800 154 666.

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that

an appropriate risk assessment can be made, the user should contact Nuplex Industries (Aust) Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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