

X-DUTY CLEANER

MATERIAL SAFETY DATA SHEET

Date of Issue: June 2001

STATEMENT OF HAZARDOUS NATURE

Hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company: DRY TREAT PTY LTD
Address: 220 Pacific Hwy, Crows Nest NSW 2065 Australia
P.O. Box 551, St Leonard's NSW 1590 Australia
Tel: +61 2 9954 3211 Fax: +61 2 9954 3162

Emergency Telephone Number: +61 2 9954 3211

IDENTIFICATION

Product Name: X-DUTY CLEANER
Other Name: N-Methyl-2-pyrrolidone mixture
UN Number: None assigned
Dangerous Goods Class: 3.3 Combustible liquid
Subsidiary Risk: None
Hazchem Code: None
Packaging Group: None
Poisons Schedule Number: S5 N-Methyl-2-pyrrolidone < 50%
Use: **Cleaning , degreasing cleaner and graffiti remover**

PHYSICAL AND CHEMICAL DESCRIPTION

Appearance: Clear liquid. Miscible with water in all proportions
Odour: **Sweet, citrus odour**
Solvent: Water
Boiling Point/Melting Point: **Approx 185°C**
Vapor Pressure (20°C): No data
Vapour Density **Vapours may be heavier than air**
Volatiles: About 90%
Specific Gravity: **1.1**
Flashpoint: About 95°C
Flammability Limits: **1.3 – 9.5% N-Methyl-2-pyrrolidone mixtures**
Solubility in Water (20°C): Soluble in all proportions

Other Properties: **Hydroscopic. Sensitive to light. May react with strong oxidising agents**

INGREDIENTS

Chemical Name:	Hazard Symbol	CAS Number	Proportion
N-Methyl-2-pyrrolidone	Xi	872-50-4	30-60%
Other ingredients			30-60%
Surfactants			<10%

HEALTH HAZARD INFORMATION

Health Effects

No data available for the mixture. Information presented relates to individual ingredients.

Acute:

Swallowed: Likely to cause gastric upset with nausea and possible vomiting. Large doses may cause stupor.

Eye: Irritating if splashed into the eyes.

Skin: Irritant to skin. Will have a degreasing effect on the skin that may lead to further irritation. May be absorbed through broken skin.

Inhaled: May cause minor irritation on long exposure to low vapour levels. Irritating to respiratory system at high concentrations.

Chronic:

Repeated skin contact may cause allergic dermatitis.

Other information:

LD50: N-Methyl-2-pyrrolidone 3,914 mg/kg oral, rat. 8,000 mg/kg skin, rabbit.

Other ingredient: 20,000 mg/kg oral, rat.

Surfactant: 1,000 mg/kg oral, rat.

FIRST AID MEASURES

Take off all contaminated clothing. If poisoning occurs, contact a doctor or Poisons Information Centre.

After inhalation

Remove from exposure.

After skin contact

If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

After eye contact

If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

After ingestion

DO NOT induce vomiting. Rinses mouth and give plenty of water to drink. Seek medical advice immediately.

First aid facilities

Recommended: Eye wash. Hand wash basin.

Advice to doctor

Product contains a moderate proportion of N-methyl-2-pyrrolidone and a low proportion of surfactant. Vomiting should not have been induced because of risk of aspiration into the lungs. Irritating to skin and eyes. Contact Poisons Information Centre.

EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering Controls**

Ensure adequate ventilation (same as outdoors) when using.

Personal Protection

Avoid contact with skin and eyes. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

Normal use: Eye/face protection, gloves, rubber or plastic.

Industrial quantities: Face shield or safety glasses; gloves, rubber or plastic; plastic apron, sleeves and boots

Respiratory Protection

Required if the limit values like TLV are exceeded; when vapours or aerosols occur.

Hand Protection

Suitable protective gloves such as nitrile or neoprene.

Eye Protection

Close fitting protective goggles (e.g. closed goggles).

Ingredients with limiting values to be controlled

N-Methyl-2-pyrrolidone: 100 ppm, 400mg/m³ (Germany -MAK)

Flammability: Combustible liquid, flash point about 95 °C. Vapour/air mixture may become flammable.

HANDLING AND STORAGE

Handling

Keep containers up right and securely capped. Stack no more than two high.

Protect against fire/explosion

No special protection required.

Storage

Store in a cool, dry, well ventilated place, out of reach of children. Large quantities should be stored in a banded flammables store. Store in original container. Keep container closed and out of direct sunlight. Keep away from naked flames and other sources of ignition. Prevent vapours from collecting in enclosed or low lying places. Keep away from oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

TRANSPORT INFORMATION

DG Class:	3.3 Combustible liquid
UN-NO:	None
Packaging Group:	None
Proper Shipping Name:	Combustible Liquid

Observe requirements of The Australian Code for the Transport of Dangerous Goods by Road and Rail.

Observe requirements of state Dangerous Goods (Storage & Handling) Regulations.

ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with eyes and skin. Provide sufficient ventilation. Where protective equipment see '*exposure controls/personal protection*' section. Floor may be slippery. Care should be taken to avoid falls. Inform others to keep at a distance, shut off all possible sources of ignition.

Environmental precautions

Prevent spillage from entering drains, soil, natural waters or the environment.

Methods for Cleaning Up

Absorb on inert absorbent, transfer to container and arrange removal by Disposals Company. Wash site off spillage thoroughly with water.

Cleaning Up Large Spills

Contained using sand or earth, both liquid and solids then transferred to salvage containers. Residues should be treated as for normal clean up.

FIRE-FIGHTING MEASURES

Combustible liquid, flash point about 95 °C. Vapour/air mixtures may become flammable. Contact with strong oxidising agents may cause fire.

Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving

Suitable Extinguishing Media:
Unusual Fire Hazards:

chemicals. Determine the need to evacuate or isolate the area according to your emergency plan. Use water spray to keep fire exposed containers cool.
Water, foam or dry agent.
None known.

STABILITY AND REACTIVITY

Hazardous Reactions: Avoid strong oxidising agents.
Hazardous Decomposition Products: Carbon dioxide, water vapour, oxides of nitrogen.
Incomplete combustion may generate carbon monoxide.

TOXICOLOGICAL INFORMATION

Skin: No data available

Inhalation: No data available

Further Information: The components in the proportions present are considered not to pose a hazard under conditions of good occupational work practices.

ECOLOGICAL INFORMATION

No data available (preparation)

REGULATORY INFORMATION

Labelling:

According to the Dangerous Preparations Directive (88/379/EEC)

Hazard symbol: Xi = Irritant

R-phrases: R36/38 Irritating to eyes, respiratory system and skin

S-phrases: S41 In case of fire and/or explosion, do not breathe fumes.

CONTACT POINT

For specialist advice, contact Technical Manager on +61 2 9954 3211

Important Note:

The information presented in this MSDS is intended as a guideline for the selection and use of X-DUTY CLEANER and is accurate to the best of our knowledge at the time of publication. This is not a specification and is not to be used as a firm approval for the suitability of X-DUTY CLEANER for any particular surface or substrate. For specific written recommendations and instructions contact Dry-Treat Pty Ltd.