# Safety Data Sheet

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** **NINOL 1281**

**Recommended Use of the Chemical and Restrictions on Use**
Surfactant.
For industrial use only.

**Supplier:** Ixom Operations Pty Ltd
**ABN:** 51 600 546 512
**Street Address:** Level 8, 1 Nicholson Street
East Melbourne Victoria 3002
Australia

**Telephone Number:** +61 3 9906 3000
**Emergency Telephone:** **1 800 033 111 (ALL HOURS)**

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in packagings: that do not incorporate a receptacle exceeding 500 kg(L); or IBCs.

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

**Classification of the chemical:**
Skin Irritation - Category 2
Eye Damage - Category 1
Carcinogenicity - Category 2
Acute Aquatic Toxicity - Category 2
Chronic Aquatic Toxicity - Category 3

**SIGNAL WORD:** DANGER


**Hazard Statement(s):**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statement(s):**

**Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P281 Use personal protective equipment as required.

**Response:**
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see First Aid Measures on Safety Data Sheet).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.

**Storage:**
P405 Store locked up.

**Disposal:**
P501 Dispose of contents and container in accordance with local, regional, national, international regulations.

**Poisons Schedule (SUSMP):** S5 Caution.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**Product Description:**
Alkanolamide blend, 81-84% (Proprietary composition)
Diethanolamine (CAS number 111-42-2), 16-19%
Contains Cocoamide diethanolamine (CAS number 68603-42-9), Methanol (CAS number 67-56-1)

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

**Inhalation:**
Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

**Skin Contact:**
If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye Contact:**
Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport promptly to hospital or medical centre.

**Ingestion:**
Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

**Indication of immediate medical attention and special treatment needed:**
Treat symptomatically. Can cause corneal burns.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**
Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

**Hazchem or Emergency Action Code:** · 3Z

**Specific hazards arising from the chemical:**
Combustible liquid. Environmentally hazardous.

**Special protective equipment and precautions for fire-fighters:**
On burning will emit toxic fumes, including those of oxides of nitrogen , oxides of carbon . Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Keep containers cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures/Environmental precautions:**
Isolate spill or leak area immediately. Shut off all possible sources of ignition. Clear area of all unprotected personnel. Do not allow container or product to get into drains, sewers, streams or ponds. If contamination of sewers or waterways has occurred advise local emergency services.

**Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:**
Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. After cleaning, flush away any residual traces with water. DO NOT return spilled material to original container for re-use.

## 7. HANDLING AND STORAGE

Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

**Precautions for safe handling:**
Avoid skin and eye contact and breathing in vapour. Keep out of reach of children.

**Conditions for safe storage, including any incompatibilities:**
Store in a cool, dry, well ventilated place. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Store away from foodstuffs. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:** No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s):

Diethanolamine: 8hr TWA = 13 mg/m$^3$ (3 ppm)
Methyl alcohol: 8hr TWA = 262 mg/m$^3$ (200 ppm), 15 min STEL = 328 mg/m$^3$ (250 ppm), Sk

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

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

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Appropriate engineering controls:**
Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

**Individual protection measures, such as Personal Protective Equipment (PPE):**
The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.

Wear overalls, chemical goggles and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.
If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid
**Colour:** Amber

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| **Odour:** | Not available |
| **Odour Threshold:** | Not available |
| **Specific Gravity:** | 1.00 @23°C |
| **Relative Vapour Density (air=1):** | >1 (estimated) |
| **Vapour Pressure (20 °C):** | Not available |
| **Flash Point (°C):** | >93.9 (PMCC) |
| **Flammability Limits (%):** | Not available |
| **Autoignition Temperature (°C):** | Not available |
| **% Volatile by Weight:** | 16-19 |
| **Solubility in water (g/L):** | Not available |
| **Boiling Point/Range (°C):** | >100 |
| **pH:** | 9 (1% aqueous) |
| **Viscosity:** | 1240 cP @25°C |
| **Freezing Point/Range (°C):** | -5 |

## 10. STABILITY AND REACTIVITY

**Reactivity:** Non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** None known.

**Conditions to avoid:** Avoid temperatures above the flash point.

**Incompatible materials:** Incompatible with strong acids .

**Hazardous decomposition products:** Oxides of nitrogen. Oxides of carbon.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation.

**Eye contact:** A severe eye irritant. Contamination of eyes can result in permanent injury.

**Skin contact:** Contact with skin will result in irritation. A component of this product may be absorbed through the skin.

**Inhalation:** Breathing in vapour may produce respiratory irritation.

**Acute toxicity:** No LD50 data available for the product. For the constituent Diethanolamine:
Oral LD50 (rat): 710 mg/kg.
Dermal LD50 (rabbit): >2000 mg/kg (for Alkanolamide blend).

**Respiratory or skin sensitisation:** No information available.

**Chronic effects:** Suspected of causing cancer.
Diethanolamine has been classified by the International Agency for Research on Cancer (IARC) as a Group 2B carcinogen. Group 2B - The agent is possibly carcinogenic to humans.

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|---|---|
| **Specific Target Organ Toxicity (STOT) - single exposure:** | Not applicable. |
| **Specific Target Organ Toxicity (STOT) - repeated exposure:** | Not applicable. |
| **Aspiration hazard:** | Not applicable. |

## 12. ECOLOGICAL INFORMATION

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|---|---|
| **Ecotoxicity** | Avoid contaminating waterways. |
| **Persistence/degradability:** | The material is readily biodegradable. |
| **Bioaccumulative potential:** | No information available. |
| **Mobility in soil:** | No information available. |
| **Aquatic toxicity:** | Toxic to aquatic organisms. Harmful to aquatic life with long lasting effects. |

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:**
Refer to Waste Management Authority. Dispose of contents and container in accordance with local, regional, national, international regulations.

## 14. TRANSPORT INFORMATION

**Road and Rail Transport**
Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to the provisions of the Australian Code for the Transport of Dangerous Goods by Road and Rail when transported by road or rail in packagings: that do not incorporate a receptacle exceeding 500 kg(L); or IBCs.


| | |
|---|---|
| **UN No:** | 3082 |
| **Transport Hazard Class:** | 9 Miscellaneous Dangerous Goods |
| **Packing Group:** | III |
| **Proper Shipping Name or Technical Name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DIETHANOLAMINE) |
| **Hazchem or Emergency Action Code:** | · 3Z |

**Marine Transport**
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

| | |
|---|---|
| **UN No:** | 3082 |
| **Transport Hazard Class:** | 9 Miscellaneous Dangerous Goods |
| **Packing Group:** | III |
| **Proper Shipping Name or Technical Name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DIETHANOLAMINE) |
| **IMDG EMS Fire:** | F-A |
| **IMDG EMS Spill:** | S-F |

**Air Transport**
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

| | |
|---|---|
| **UN No:** | 3082 |
| **Transport Hazard Class:** | 9 Miscellaneous Dangerous Goods |
| **Packing Group:** | III |
| **Proper Shipping Name or Technical Name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DIETHANOLAMINE) |

## 15. REGULATORY INFORMATION

**Classification:**
This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

**Classification of the chemical:**
Skin Irritation - Category 2
Eye Damage - Category 1
Carcinogenicity - Category 2
Acute Aquatic Toxicity - Category 2
Chronic Aquatic Toxicity - Category 3

**Hazard Statement(s):**
H315 Causes skin irritation.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

**Poisons Schedule (SUSMP):** S5 Caution.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

Supplier Safety Data Sheet; 08/ 2018.
NINOL is a registered trademark of Stepan Company.

This safety data sheet has been prepared by Ixom Operations Pty Ltd Toxicology & SDS Services.

**Reason(s) for Issue:**
Revised Primary SDS
Change in Handling & Storage Requirements
Change in Exposure Controls

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.