# Material Safety Data Sheet

## SOLUTION 385-91

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|---|---|---|---|---|---|---|---|
| **Infosafe No.** | 1HLI2 | **Version No.** | 1 | **ISSUED Date** | February 2010 | **Status** | ISSUED by NUPLEXIN |

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name**
SOLUTION 385-91

**Product Code**
RST38591

**Company Name**
Nuplex Industries (Aust) Pty Ltd (ABN 25 000 045 572)

**Address**
49 - 61 Stephen Road, Botany, NSW 2019
New Zealand: Nuplex Industries Ltd., 12 Industry Road, Penrose, Auckland

NEW ZEALAND

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

**Telephone/Fax Number**
Telephone: Australia: +61 (02) 9839 4000(BH); New Zealand: +64 (09) 579 4100(BH) Fax number: Australia: +61 (02) 9674 6225; New Zealand: +64 (09) 571 0542

**Email**
compliance@nuplex.com.au

**Recommended Use**
Industrial raw material.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification**

Australia:
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.

New Zealand:
Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Classified as Dangerous Goods for transport, according to the NZS 5433:2007 Transport of Dangerous Goods on Land.

HSNO Classification:
3.1C — Flammable liquids: Medium hazard.
6.1E - Substance that is acutely toxic(Aspiration hazard).
6.3B - Substance that is mildly irritating to the skin.
9.1B - Substance that is ecotoxic in the aquatic environment.

Hazard Statement Codes:
H226 Flammable liquid and vapour.
H305 May be harmful if swallowed and enters airways.
H316 Causes mild skin irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement Codes - Prevention:
P102* Keep out of reach of children. - This statement applies only where the substance is available to the general public.
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.
P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical, ventilating and lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P273 Avoid release to the environment.
P280 Wear protective gloves, and eye protection.

Precautionary Statement Codes - Response:
GENERAL:
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.
P391 Collect spillage.
INGESTION
P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P331 Do NOT induce vomiting.
SKIN
P303+P361+P353 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P332+P313 If skin irritation occurs: 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 HSNO 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)**
R10 Flammable.
R38 Irritating to skin.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrase(s)**
S2 Keep out of the reach of children.
S23 Do not breathe gas/fumes/vapour/spray
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
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.
S36/37 Wear suitable protective clothing and gloves.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredients**

| Name | CAS | Proportion |
|---|---|---|

| | | |
|---|---|---|
| Synthetic resin | Proprietary | 40-80 % |
| White spirits | 64742-88-7 | 20-60 % |

## 4. FIRST AID MEASURES

**Inhalation**
If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.

**Ingestion**
Do NOT induce vomiting. Wash out mouth and lips with water. Where vomiting occurs naturally have affected person place head below hip level in order to reduce risk of aspiration. Seek immediate medical attention.

**Skin**
Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

**Eye**
If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

**First Aid Facilities**
Eye wash and normal washroom facilities.

**Advice to Doctor**
Treat symptomatically.

**Other Information**
For advice in an emergency, contact a Poisons Information Centre (Phone eg Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media**
Extinguish fire with foam, dry chemical powder, carbon dioxide, water spray or water fog.

**Hazards from Combustion Products**
Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.

**Specific Hazards**
Flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

**Hazchem Code**
•3Y

**Precautions in connection with Fire**
Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers.

**Unsuitable Extinguishing Media**
Do not use water jet.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency Procedures**
Wear appropriate personal protective equipment and clothing to prevent exposure.

Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.

## 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 tanks 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 empty containers as they may contain hazardous residues. Maintain high standards of personal hygiene ie. wash hands after handling and 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. Reference should also be made to all State and Federal regulations.

## 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 | | STEL | | NOTICES |
|---|---|---|---|---|---|
| | ppm | mg/m³ | ppm | mg/m³ | |
| Stoddard solvent (White spirit) | - | 790 | - | - | - |

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

| Substance | TWA | | STEL | | NOTICES |
|---|---|---|---|---|---|
| | ppm | mg/m³ | ppm | mg/m³ | |
| Stoddard solvent 100 (White spirit) | 525 | - | - | - | - |

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.

**Biological Limit Values**
No biological limit allocated.

**Engineering Controls**
Ventilation adequate to maintain the concentration of airborne contaminants below exposure standards is required. The ventilation system must be suitable for use with flammable/combustible materials. The use of a local exhaust ventilation system, drawing vapours, fumes and mists away from workers breathing zone is recommended. If the engineering controls are not sufficient to maintain concentrations of particulates and

fumes below the exposure standards, suitable respiratory protection must be worn.

**Respiratory Protection**
If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

**Eye Protection**
Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**
Wear gloves of impervious material e.g. laminated film, nitrile or neoprene rubber gloves. 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. The use of barrier cream is recommended.

**Body Protection**
Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**
Clear, amber liquid.

**Odour**
Slight odour.

**Melting Point**
Not available

**Boiling Point**
147-199°C (for White spirits)

**Solubility in Water**
Insoluble

**Specific Gravity**
0.89-0.96

**pH Value**
Not applicable

**Vapour Pressure**
0.8 kPa at 38°C (for White spirits)

**Vapour Density (Air=1)**
4.6 (for White spirits)

**Evaporation Rate**
0.16 (n-Butyl acetate=1) (for White spirits)

**Viscosity**
Not available

**Flash Point**
36°C (Tag Closed Cup) (White Spirit)

**Flammability**
Flammable liquid.

**Auto-Ignition Temperature**
Not available

**Flammable Limits - Lower**
0.9% (for White spirits)

**Flammable Limits - Upper**
7.0% (for White spirits)

## 10. STABILITY AND REACTIVITY

**Chemical Stability**
Stable under normal conditions of handling and storage.

**Conditions to Avoid**
Heat, direct sunlight, open flames or other sources of ignition.

**Incompatible Materials**
Strong oxidising agents, halogens and molten sulphur.

**Hazardous Decomposition Products**
Thermal decomposition products include carbon monoxide and carbon dioxide.

**Hazardous Reactions**
Reacts with halogens, molten sulfur and strong oxidising agents.

**Hazardous Polymerization**
Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Toxicology Information**
Not available

**Inhalation**
Inhalation of product vapours may cause irritation of the nose, throat and upper respiratory tract. Vapours may cause drowsiness and dizziness.

**Ingestion**
Harmful-may cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause severe pulmonary injury that may lead to death. May cause irritation to the mouth, throat, esophagus and stomach with nausea, abdominal discomfort, vomiting and diarrhea.

**Skin**
Irritating to skin. May cause redness, itching and inflammation. Repeated exposure may cause skin dryness and cracking.

**Eye**
May cause eye irritation, tearing, stinging, blurred vision, and redness.

**Chronic Effects**
Frequent or prolonged contact with skin may cause dermatitis. Repeated or prolonged inhalation may aggravate existing respiratory disorders and cause liver and kidney damage.

## 12. ECOLOGICAL INFORMATION

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

**Persistence / Degradability**
Not available

**Mobility**
Not available

**Environmental Protection**
Do not allow product to enter drains, sewers or waterways.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Considerations**
Disposal of spilled or waste material must be carried out in accordance with the relevant local and national government regulations. Advise flammable nature. Empty containers may contain flammable residues. Do not puncture, cut or weld empty containers.

## 14. TRANSPORT INFORMATION

**Transport Information**
Australia:
This material is classified as a Class 3 (Flammable Liquids) Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Class 3 Dangerous Goods are incompatible in a placard load with any of the following:
- Class 1, Explosives
- Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk
- Class 2.3, Toxic Gases
- Class 4.2, Spontaneously Combustible Substances
- Class 5.1, Oxidising Agents
- Class 5.2, Organic Peroxides
- Class 6, Toxic and Infectious Substances, if the Class 3 dangerous goods are nitromethane
- Class 7, Radioactive Substances

New Zealand:
This material is classified as a Class 3 - Flammable Liquid 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

**U.N. Number**

1866

**Proper Shipping Name**
RESIN SOLUTION

**DG Class**
3

**Packing Group**
III

**Hazchem Code**
•3Y

**IERG Number**
14

## 15. REGULATORY INFORMATION

**Regulatory Information**
Australia:
Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.
Classified as a Scheduled Poison 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.
All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).
Group Standard:
Additives, Process Chemicals and Raw Materials (Flammable) Group Standard 2006

**HSNO Approval Number**
HSR002495

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

**Australia (AICS)**
All ingredients are listed in the Australia Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS**
MSDS Reviewed: February 2010
Supersedes: March 2005

**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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End of MSDS

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