

Code: Metaflex SP

SAFETY DATA SHEET

Metaflex® SP 1050 Pretreatment

Identification of the material and supplier 1.

Names

: Metaflex® SP 1050 Pretreatment **Product name**

Akzo Nobel Car Refinishes Australia

269 Williamstown Road Port Melbourne VIC 3207 Australia

Poisons Information: 13 11 26 (24 hours)

Emergency telephone

number

Uses

: 1-800-680-071 (24 hours)

Area of application : Industrial applications, Used by spraying.

Product type : Liquid.

Hazards identification

Classification : Not regulated. Risk phrases : Not classified.

Statement of : NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS.

hazardous/dangerous

nature

Composition/information on ingredients

: Yes. **Mixture**

Ingredient name	CAS number	Concentration
N-methyl-2-pyrrolidone	872-50-4	2.5 - 10
2-(2-butoxyethoxy)ethanol	112-34-5	2.5 - 10

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

First aid measures

First aid measures

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

> Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person

is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

: Flush contaminated skin with plenty of water. Remove contaminated clothing and **Skin contact**

shoes. Get medical attention if symptoms occur.

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

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4. First aid measures

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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5. Fire-fighting measures

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

None known.

Special exposure hazards

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Hazchem code : Not available.

6. Accidental release measures

Personal precautions

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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Exposure controls/personal protection 8.

Occupational exposure limits

Ingredient name Exposure limits

Safe Work Australia (Australia, 8/2005). Absorbed N-methyl-2-pyrrolidone

through skin.

STEL: 309 mg/m3 15 minute(s). STEL: 75 ppm 15 minute(s). TWA: 103 mg/m³ 8 hour(s). TWA: 25 ppm 8 hour(s).

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EH40/2005 WELs (United Kingdom (UK), 8/2007). 2-(2-butoxyethoxy)ethanol

> TWA: 10 ppm 8 hour(s). STEL: 15 ppm 15 minute(s). STEL: 15 mg/m3 15 minute(s). TWA: 10 mg/m³ 8 hour(s).

Recommended monitoring

procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Exposure controls

Engineering measures

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eyes

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Physical and chemical properties

Physical state : Liquid. Relative density : 1010 **Density** : 1010 g/cm³

: Closed cup: >93.3°C (>199.9°F) Flash point

10 . Stability and reactivity

Chemical stability

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data. Materials to avoid : No specific data.

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10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Potential acute health effects

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects

may be delayed following exposure.

Ingestion : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. **Eye contact** : No known significant effects or critical hazards.

Acute toxicity

Product/ingredient name N-methyl-2-pyrrolidone	Result LD50 Dermal LD50 Intraperitoneal	Species Rabbit Rat	Dose 8 g/kg >2472 mg/kg	Exposure - -
	LD50 Intraperitoneal	Rat	2472 mg/kg	-
	LD50 Intravenous	Rat	80500 ug/kg	-
	LD50 Oral	Rat	3914 mg/kg	-
	LD50 Subcutaneous	Rat	>2 g/kg	-
	LD50 Unreported	Rat	7 g/kg	-
	TDLo Oral	Rat	750 mg/kg	-
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	6050 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Unreported	Rat	4500 mg/kg	-

Conclusion/Summary : Not available.

Potential chronic health effects

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
N-methyl-2-pyrrolidone	Eyes - Moderate irritant	Rabbit	-	100 milligrams	-
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-

Conclusion/Summary

Conclusion/Summary

Sensitizer

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Product name	Carcinogenic effects		Developmental effects	Fertility effects
N-methyl-2-pyrrolidone	-	-	Repr. Cat. 2; R61	-

Chronic effects : No known significant effects or critical hazards.

: Not available.

: Not available.

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11. Toxicological information

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.Eyes: No specific data.

12. Ecological information

Environmental effects: No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient nameTestResultSpeciesExposureN-methyl-2-pyrrolidone-Acute LC50 1.23Daphnia - Water48 hours

to 1.5 ppm Fresh flea - Daphnia water magna - <24

hours

2-(2-butoxyethoxy)ethanol - Acute LC50 Fish - Inland 96 hours

2000000 ug/L silverside -Marine water Menidia beryllina - 40 to 100 mm

Acute LC50 Fish - Bluegill -

1300000 ug/L Lepomis

Fresh water macrochirus - 33

to 75 mm

96 hours

Conclusion/Summary: Not available.

Other ecological information

Biodegradability

Conclusion/Summary: Not available.

Bioaccumulative potential

Product/ingredient nameLogPowBCFPotential2-(2-butoxyethoxy)ethanol0.3-low

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADG	Not regulated.	Not applicable.	Not applicable.	Not applicable.		-
ADR	Not regulated.	Not applicable.	Not applicable.	Not applicable.		-

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14 . Transport information IMDG Not regulated. Not applicable. Not applicable.

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PG*: Packing group

15. Regulatory information

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Standard for the Uniform Scheduling of Drugs and Poisons

Not regulated.

Control of Scheduled Carcinogenic Substances

<u>Ingredient name</u> <u>Schedule</u>

No listed substance

EU Classification : Not classified.

HCS Classification : Irritating material

16. Other information

Person who prepared the

: Validated by RehnstrJ on 2/15/2012.

MSDS

Date of previous issue : No previous validation.

Indicates information that has changed from previously issued version.

Disclaimer

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IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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