

MATERIAL SAFETY DATA SHEET

SOLARIS

Safety Data Sheet dated 29-10-2003, version 4

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

SOLARIS

1027

Company

**Hitchins New Zealand Limited
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Emergency Contact Numbers

**Poisons & Hazardous Chemicals
Information Centre (03) 474 0999**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product based on: Oxidized bitumen, naphtha solvent (petroleum), aluminium pigment, extenders.

Hazardous components within the meaning of EEC directive 67/548 and corresponding classification:

Quantity	N.67/548/CEE	CAS	EINECS	Name / Classification
50% - 100%	049-050-00-4	04742-95-0	205-199-0	solvent naphtha (petroleum), light arom N Xn R10 R37 R51/53 R65 R66 R67
≤ 8%	601-022-00-9	1330-20-7	215-535-7	Xylene – isomers mixture (o-m-p) Xn R10 R20/21 R38

3. HAZARDS IDENTIFICATION

The product is a liquid that can catch fire at temperatures in excess of 23°C if exposed to an ignition source.

4. FIRST AID MEASURES

Contact with skin:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes:

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

Wash immediately with water for at least 10 minutes.

Swallowing:

Do not induce vomiting under any circumstances. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

A suspension of activated charcoal in water, or liquid paraffin may be administered.

Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, CONSULT A DOCTOR.

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5. FIRE-FIGHTING MEASURES

Recommended extinguishers:

In case of fire, use powder extinguishers and CO₂.

Extinguishers not to be used:

None in particular.

Risks arising from combustion:

Avoid inhaling the fumes.

Protective equipment:

Use protection for the respiratory tract.

Cool the containers exposed to the fire with water.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a mask, gloves and protective clothing.

Environmental measures:

Limit leakages with earth or sand.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

Cleaning methods:

Rapidly recover the product. To do so, wear a mask and protective clothing.

If the product is in a liquid form, stop it from entering the drainage system.

Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.

After the product has been recovered, rinse the area and materials involved with water.

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.

Do not eat or drink while working.

Do not smoke while working.

Incompatible materials:

None in particular.

Storage conditions:

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Instructions as regards storage premises:

Cool and adequately ventilated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection:

Antisolvent mask.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Eye protection:

Safety glasses.

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Protection for skin:

Use clothing that provides comprehensive protection to the skin.

Exposure limits:

Name	TLW-TWA
Solvent naphtha (petroleum)	50 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: aluminium colour liquid

Odour: aromatic hydrocarbons

Vapour tension (20°C): 0.194 Kpa

Flash point: >23°C

Relative density: 0.95-1,05 Kg/l

Hydrosolubility: NO

Lipid solubility: SI

Ford viscosity n°4 (20°C): 10-15 seconds

10. STABILITY AND REACTIVITY

Conditions to avoid:

Stable under normal conditions.

Substances to avoid:

Avoid contact with combustible materials, acids and chlorinated substances.

Hazardous decomposition products: None.

11. TOXICOLOGICAL INFORMATION

The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

The toxicological information relating to the main substances in the preparation is set out below: the product does not contain any substance of particular toxicological relevance.

12. ECOLOGICAL INFORMATION

Adopt sound working practices, so that the product is not released into the environment.

13. DISPOSAL CONSIDERATIONS

Type of waste: special-dangerous

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions.

In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

RID/ADR: NUMBER ONU: 1263

NUMBER KEMLER: 30

CLASS + PACKING GROUP: 3, III

SEA (IMO-IMDG) Class 3 / UN 1263

Packaging group: III; Marine Pollutant;

EmS: F-E, S-E

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15. REGULATORY INFORMATION

88/379/EEC (Classification and Labelling):

Symbols:	Xn	Harmful
	N	Dangerous for the environment
R Phrases:	R10	Flammable
	R37	Irritating to respiratory system
	R51/53	Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
	R65	Harmful; may cause lung damage if swallowed.
	R66	Repeated exposure may cause dryness and chap of skin.
	R67	Inhaling the fumes can cause drowsiness and dizzy spells
S Phrases:	S16	Keep away from sources of ignition – No smoking
	S23	Do not breathe gas/fumes/vapour/spray
	S38	
	S51	Use only in well-ventilated areas
	S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Notes:	8	The product contains less than 0.1% weight/weight of benzol
Contents:		solvent naphtha (petroleum), light arom

Where applicable, refer to the following regulatory provisions :

Presidential Decree D.P.R. 303/56 (Health checks).
 DM 51/90 and DPR 203/38 (Atmospheric emissions)
 Ministerial circulars 46 e 61 (Aromatic amines).
 Law 136/83 (Biodegradability of detergents).
 Presidential Decree D.P.R. 175/88 (Seveso Directive), Appendices II^a, III^a e IV^a.
 Presidential Decree D.P.R. 250/89 (Labelling of detergents).
 Law Decree n°25 (02.02.2002)
 Min. Decree of 07.09.02 (reference direc. 2001/58/CE)
 Law Decree n.65 of 14/03/03 (reference direc. 1999/45/CE, 2001/60/CE)

16. OTHER INFORMATION

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
 Commission of the European Communities
 SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
 Nostrand Reinhold
 ACGIH - Treshold Limit Values - 1993/94 edition

Phrases used in paragraph 2:

Xn Harmful
 N Dangerous for the environment
 R10 Flammable
 R20 Harmful by inhalation.
 R21 Harmful in contact with skin
 R37 Irritating to respiratory system
 R38 Irritating to skin
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 R65 Harmful; may cause lung damage if swallowed

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R66 Repeated exposure may cause dryness and chap of hands

R67 Inhaling the fumes can cause drowsiness and dizzy spells.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.