

SAFETY DATA SHEET

Revision date: 20th November 2009

Marley Alutec Solvent Cleaner

1. IDENTIFICATION OF THE COMPANY AND PREPARATION

Product name : SX Solvent Cleaner
Supplier : Marley Alutec

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterisation: Cream coloured viscous liquid

<u>Hazardous substances</u>	<u>%</u>	<u>CAS</u>	<u>EINECS</u>	<u>Supply Class</u>
N-BUTYL ACETATE	10-30%	123-86-4	204-658-1	(-)R10 (Xi) R66 (-) R67
2-BUTOXYETHANOL	1-10%	111-76-2	203-905-0	(Xn) R20/21/22: (Xi) R36/38
ETHANOL	10-30%	64-17-5	200-578-6	(F) R11
LOW BOILING POINT HYDROGEN TREATED NAPHTHA-NAPHTHA (PETROLEUM), HYDRO TREATED LIGHT LOW BOILING POINT HYDROGEN TREATED NAPHTHA-NAPHTHA (PETROLEUM), HYDRODESULPHURISED HEAVY	30-50%	64742-49-0	265-151-9	(F+) R12 (Xi) R38 (N) R51/53 (Xn) R65
	1-10%	64742-82-1	265-185-4	(-) R10 (N) R51/53 (Xn) R65

3. HAZARD IDENTIFICATION

Main Hazard : Highly flammable. Irritating to skin. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness or dizziness.

Other Hazards : In use, may form flammable/explosive vapour-air mixture.

4. FIRSTAID MEASURES (SYMPTOMS)

Ingestion : There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
There may be vomiting.

Skin : There may be irritation and redness at the site of contact.

Inhalation : There may be irritation of the throat with a feeling of tightness in the chest.

Eyes : There may be irritation and redness. The eyes may water profusely.

5. FIRSTAID MEASURES (ACTIONS)

Ingestion : Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Skin : Remove all contaminated clothing and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still in contact with skin. Consult a doctor.

Inhalation : Remove casualty from exposure ensuring one's own safety while doing so. Consult a doctor.

Eyes : Bathe the eye with running water for 15 minutes. Consult a doctor.

6. Fire fighting measures

Extinguishing media : Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

Exposure Hazards : Highly Flammable. In combustion emits toxic fumes. Forms explosive air vapour mixture. Vapour may travel considerable distance to source ignition and flash back.

Protection of fire-fighters : Wear self contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

7. Accidental Release Measures

Personal Precautions	:	Refer to section 9 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak side up to prevent the escape of liquid. Eliminate all sources of ignition.
Environmental Precautions	:	Do not discharge into drains or rivers. Contain the spillage using bunding.
Clean-up Procedures:	:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

8. Handling and Storage

Handling Requirements	:	Avoid contact with the substance. Ensure there is sufficient ventilation in the area. Do not handle in confined spaces. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non sparking tools.
Storage Conditions	:	Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

9. Exposure controls and personal protection

N-BUTYL ACETATE	WEL (8hr exposure limit): 724mg/m ³	WEL (15min exposure limit): 966mg/m ³
2-BUTOXYETHANOL	WEL (8hr exposure limit): 25ppm	WEL (15min exposure limit): 50ppm
ETHANOL	WEL (8hr exposure limit): 1920mg/m ³	
Engineering Measures	:	Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition
Respiratory Protection	:	Self-contained breathing apparatus must be available in case of emergency.
Hand Protection	:	Impermeable gloves.
Eye Protection	:	Safety glasses. Ensure eye bath is to hand.
Skin Protection	:	Impermeable protective clothing.

10. Physical and chemical properties

State	:	Liquid
Colour	:	Colourless
Odour	:	Perceptible odour
Solubility in water	:	Highly soluble
Also soluble in	:	Methanol, Acetone
Boiling point/range °C	:	78.4-115.4
Melting point/range °C	:	0
Flammability limits %	:lower:	3.3
	:upper:	19.0
Flash point °C	:	12
Auto flammability °C	:	230
Vapor pressure	:	5.8 kPa
Relative density	:	0.791

11. Stability and reactivity

Stability	:	Stable under normal conditions. Stable at room temperature.
Hazardous decomposition products	:	In combustion emits toxic fumes. Oxides of carbon.
Materials to avoid	:	Strong oxidising agents. Strong acids.
Conditions to avoid	:	Heat. Hot surfaces. Sources of ignition. Flames.

12. Toxicological information

Hazardous Ingredients	N-BUTYL ACETATE	ORL MUS LD50 6mg/kg ORL RAT LD50 10768mg/kg
	2-BUTOXYETHANOL	IVN RAT LD50 307mg/kg ORL MUS LD50 1230 mg/kg ORL RAT LD50 470mg/kg
	ETHANOL	IVN RAT LD50 1440mg/kg ORL MUS LD50 3450mg/kg ORL RAT LD50 7060mg/kg
Routes of Exposure	:	Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

13. Ecological information

Mobility	:	Readily absorbed into soil
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Persistence & Degradability : Biodegradable.
Bio-Accumulation : Non bioaccumulation potential.
Other adverse effects : Negligible ecotoxicity

14. Disposal considerations

NB: The user's attention is drawn to the possible existence of regional or national regulation regarding disposal.

15. Transport information

ADR/RID

UN No. : 1993
Packing Group : 11
Shipping Name : FLAMMABLE LIQUID N.O.S. (LOW BOILING POINT HYDROGEN TREATED NAPHTHA – N - BUTYL ACETATE.)
Labelling : 3
ADR Class : 3
Classification Code : F1
Hazard Identity Number : 33

IMDG/IMO

UN No. : 1993
Packing Group : 11
Marine Pollutant :
Class : 3
EMS : F-E, S-E*
Labelling: : 3

IATA/ICAO

UN NO. : 1993
Packing Group : 11
Labelling : 3
Class : 3
Packing Instructions : 305(P&CA): 307(CAO)

16. Regulatory information

Hazard Symbols: : **HIGHLY FLAMMABLE**
DANGEROUS FOR THE ENVIRONMENT
HARMFUL

Risk Phrases : R11 Highly Flammable
R38 Irritating to skin
R51/53 Toxic to aquatic organisms, may cause long term adverse effects in aquatic environment
R65 Harmful: may cause lung damage if swallowed
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness

Safety Phrases : S16 Keep away from sources of ignition – No smoking
S33 Take precautionary measures against static discharges
S43 In case of fire, use dry chemical powder
S61 Avoid release to the environment. Refer to special instructions/Safety Data Sheet.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label

Note : The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Safety Data Sheet. The users' attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

17. Other information

Risk Phrases used in s2

R10	Flammable
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness or dizziness
R20/21	<i>(continued next line)</i>
/22	Harmful by inhalation, in contact with skin and if swallowed
R36/38	Irritating to eyes and skin
R11	Highly flammable
R12	Extremely flammable
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

This data is offered in good faith as typical values and not as a product specification. No warranty either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable, each user should review the recommendations in the specific context of the intended use and determine whether they are appropriate.