

SACHE B/118

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SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 – PRODUCT IDENTIFICATION

Product trade name: SACHE B/118

Product code: SACB118...

1.2 – PRODUCT TYPE AND USE

Product type: water based cleaning and degreasing system

Use: metal surface preparation before painting

1.3 – COMPANY IDENTIFICATION

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SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

LIST OF HAZARDOUS INGREDIENTS AS PER DIR. 67/548/CEE, 1999/45/CE AND FOLLOWING EMENDAMENTS

CHEMICAL NAME	CONCENTRATION %	HAZARD SYMBOLS (*)	RISK PHRASES (*)	CAS NUMBER	EINECS NUMBER
ETHANOL AMINE	2.000 - 2.400	Xn Xi	R20 R36/37/38;	141-43-5	205-483-3
N-OCTYL-PIRROLIDONE	4.000 - 4.400	C	R34	2687-94-7	===
2-(2-BUTOXY-ETOXY)- ETHANOL	48.000 – 52.000	Xi	R36	112-34-5	203-961-6

(*) See section. 16

SECTION 3 - HAZARDS IDENTIFICATION

HAZARD NATURE – HAZARDS IDENTIFICATION

The product is classified as irritant for eyes.

The Product is used as 2-3% in demineralized water: In the use condition, the substances mentioned in section 2 have got a concentration lower than 0.1% (traces). So the Product does not present significant risks in the practical use. The indications contained in this section and in this Material Safety Data Sheets refer to the concentrated Products, before use.

- INHALATION

Avoid inhalation. Vapours at high concentration rates may cause irritation to the respiratory tract, throat and nose.

- SKIN CONTACT

Avoid contact with skin. The product have skin degreasing properties. Monoethanol amine is classified as irritant to skin and n-octyl-pirrolidone is classified as corrosive. These substances are contained into the product in very limited amount.

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SECTION 3 - HAZARDS IDENTIFICATION

- CONTACT WITH EYES

Irritant. Avoid contact with eyes. The product may cause burning, temporary irritation and may cause light damages to eyes.

- INGESTION

Do not swallow.

SECTION 4 – FIRST AID MEASURES

INHALATION

Move the patient from the exposure area. Keep him warm and at rest in a well-ventilated place. In case of disorders call a physician.

SKIN CONTACT

Remove contaminated clothes and shoes immediately; rinse thoroughly with running water and soap if possible. If irritation persists, call a physician.

EYE CONTACT

Irrigate with running water immediately, keeping eyelids for at least 15 min. Do not contaminate the not injured eye. Rinse, if necessary with ophthalmic solution. Seek medical assistance.

INGESTION

DO NOT INDUCE VOMITING.

SEEK MEDICAL ADVICE IMMEDIATELY and provide the Safety Data Sheet.

If the patient is conscious, it is possible to rinse its mouth with water.

SECTION 5 - FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING EQUIPMENT

CO2, dry chemicals, alcohol resistant foam, atomised water. Do not use water jets. Sand

SPECIAL PROCEDURES / PRECAUTIONS

Keep unauthorised people away. Spray water to keep the adjacent containers cool. Do not breath the fumes in. Use breathing apparatuses and fire protection suits. Firemen must work on the windward side.

HAZARDOUS COMBUSTION PRODUCTS

Unknown. An incomplete combustion may produce carbon oxide.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SPILLING INTO SOIL OR WATER

Keep unauthorised people away. Extinguish free flames and remove ignition sources. Air the area. Do not smoke. Provide authorised staff with appropriate protection devices (see section 8). Stop spilling at the source. Notify the if the product penetrates into water streams, water drains or sewerage system or if it has contaminated soil and vegetation. Prevent from spreading by using earth, sand or sawdust. Transfer the spilt product into suitable metallic containers. If the spilling occurs into water, prevent from spreading if possible, and remove the spilt product from the surface as rapidly as possible by means of mechanical devises or of appropriate absorbing substances.

Seek for disposal advice in compliance with local legislation prescriptions.

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SECTION 7 – HANDLING AND STORAGE

7.1 - HANDLING

Use in a well-ventilated area. Avoid contact with eyes, skin and inhalation of vapours or fumes. During work do not eat, drink or smoke. Keep away from foodstuffs. See also section 8. Stick to the following cleaning and sanitary regulations:

- have an accurate wash before any breaks;
- keep personal clothes separate from working clothes;
- change and wash accurately dirty clothes.

7.2 – STORAGE

Store in a well-ventilated area away from sources of heat or ignition. Avoid direct exposure to sunlight. Keep containers tightly closed. Provide connection to earth. Avoid accumulation of electrostatic charges.

SECTION 8 – PERSONAL PROTECTION / EXPOSURE CONTROL

8.1 - OCCUPATIONAL EXPOSURE LIMITS

1 – ACGIH 2000 – American Conference of Governmental Industrial Hygienists

2 – MAK KOMMISSION (Germany)

3 – Not established (recommended value)

SUBSTANCE	1	2	3
ETHANOL AMINE	3ppm – 7.5mg/m ³	3ppm - 8mg/m ³	===

8.2 – EXPOSURE CONTROL

ENGINEERING CONTROL MEASURE

Provide suitable aspiration installations. Ensure proper ventilation in the workshop where the product is used and stored.

RESPIRATORY PROTECTION

Normally not required

HANDS PROTECTION

Solvent-proof resistant gloves.

EYES PROTECTION

Protection goggles or face shields if there is the risk of accidental splashes.

SKIN PROTECTION

Wear suitable industrial protection clothes and, if appropriate, waterproof rubber overalls and chemical resistant safety shoes.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state / aspect: liquid, yellowish.

Odour: typical

Viscosity 45-55" C.F. 2 @ 20°C

Specific weight (water = 1) at 20° C: 1.000 ± 0.030 Kg./lt

Vapour density 1 atm (air = 1): > 1

Flash point: > 94° C

pH: 11 ca.

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Explosion limit (standard P and T% in volume): (*) See section 16		LEL (*)	UEL (*)
	ETHANOL AMINE	LEL 3.00%	UEL 23.50%
	N-OCTYL-2-PIRROLIDONE	N/D	N/D
	2-(2-BUTOXYETOXY)ETHANOL	LEL 0.70%	UEL 9.90%

Solubility in water: limited

SECTION 10 – STABILITY AND REACTIVITY

STABILITY'

Stable under normal storage and use conditions. Store at temperature between 5 and 50°C

CONDITIONS TO AVOID

For the concentrated Product (before dilution with demineralized water): free flame, spark, electric arch, static charge.

MATERIALS TO AVOID

For the concentrated Product (before dilution with demineralized water): strong acids and basis, strong oxidising agents. Comburent materials.

HAZARDOUS DECOMPOSITION PRODUCTS

None known. See also section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Take into account the concentration of the single ingredients in order to evaluate the toxicological effects of the substance.

Information concerning some of the substances contained in the product is provided here below.

ETHANOL AMINE

ACUTE TOXICITY

Ingestion: the toxicity for a single oral dose has to be considered from low to moderate. The LD50 oral for rats is 1720-2740 mg/Kg. The ingestion may cause irritation and ulceration to the gastro-intestine tract. The ingestion may cause burn to the mouth and throat.

Skin contact: single and prolonged may cause may cause absorption of substance through skin in harmful quantity. The LD50 for the skin absorption in rabbit is 1000 mg/Kg.

Inhalation: single, prolonged (hours) and excessive exposition to inhalation may cause negative effects.

IRRITATION

Skin: single and short exposition may cause skin burn.

Eyes contact: it may cause serious irritation with damage to cornea, that may evolve to in permanent heavy sight problems, even blindness. Vapours may irritate eyes.

Inhalation: excessive exposition may cause irritation to the first parts of the respiratory tract.

EFFECTS ON GROWTH AND ON THE REPRODUCTIVE SYSTEM

It has been proved by studies on animals that it does not interfere on reproduction. Mono-ethanolamine may cause birth deformities in rats following to oral administration. The information is inadequate in order to value the reported discovery. Additional studies are now in course.

MUTAGENICITY

Mutagenicity tests in "vitro" provided negative results.

OTHER INFORMATION

Repeated and excessive exposition may cause damages to liver and to kidneys, and state of lethargy.

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SECTION 11 – TOXICOLOGICAL INFORMATION

N-OCTYL-2-PIRROLIDONE

ACUTE TOXICITY

Oral Toxicity: LD50 2050 mg/Kg (rats)

Skin Toxicity: LD50 > 2000 mg/Kg

IRRITATION

- Skin: a prolonged or repeated exposure may cause irritation to the skin, even burns. The liquid causes burning sensations and itching in the point of contact.

- Eyes: it may cause moderate irritation to eyes; it may cause moderate corneal injuries.

- Inhalation: excessive exposure may cause irritation to the higher respiratory tract.

EFFECTS ON GROWTH AND ON THE REPRODUCTIVE SYSTEM

In studies on animals, it proved not to interfere with reproduction. Deformities at birth are unlikely. Exposures that do not have negative effects on the mother should not have effects on the foetus.

MUTAGENICITY

Mutagenicity tests in “vitro” provided negative results.

OTHER INFORMATION

Observations on animals include liver damages deriving from repeated oral intakes.

DI ETHYLEN GLYCOL MONOBUTHYL ETHER

ACUTE TOXICITY: low degree of acute toxicity. LD50 oral (rats): 7300-9600 mg/Kg. LD50 skin (rabbit): 2800 mg/Kg.

IRRITANT POWER – EYES: eyes irritation has been tested by method 405 OECD. Single eye application caused irritation and damages to cornea.

IRRITANT POWER – SKIN: Skin irritation has been tested by method 404 OECD. Single application, for 4 hours on rabbit skin caused least irritation

SUB ACUTE/SUB-CHONIC TOXICITY: not expected

CRONIC TOXICITY/CANCER PRODUCING: no data available

GENO-TOXICITY: no mutagenic effect has been measured.

TOXICITY ON REPRODUCTION/DEVELOPMENT: not found from the tests

SECTION 12 – ECOLOGICAL INFORMATION

Always use the product following the best working practice and avoid dispersion of the product in the environment.. Information concerning some of the substances contained in the product is provided here below.

ETHANOL AMINE

MOBILITY AND POTENTIAL OF BIOACCUMULATION

The logarithm of the ottanol / water (log/Pow) ratio coefficient is estimated to be - 1.31. No bio-concentration is expected due to the high solubility in water. No valuable volatilization is foreseen from water to air.

DEGRADATION

Biodegradation reached in the Closed Bottle test after 22 days is 63.6%. Material easily biodegradable in the environment (BOD28 > 60%). Inhibition concentration (IC50) according to “Activated sludge, Respiration Inhibition test” (OECD test n. 209) is > 1000 mg/l. It is not foreseen that material may cause negative effects in a long time in the aquatic environment (the material is easily biodegradable and log/Pow is < 3.0)

AQUATIC TOXICITY

The LC50 for fish is between 100 - 1000 mg/l. The LC501 acute for Daphnia Magna is 140 mg/lt. Material is not harmful for aquatic organism (LC50/EC50/IC50>100 mg/lt)

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SECTION 12 – ECOLOGICAL INFORMATION

DI ETHYLEN GLYCOL MONOBUTHYL ETHER

Mobility: the product is not volatile, not soluble in water. The evaporation from soils is easy, difficult from water. The product has got a low absorption rate into soils.

DEGRADABILITY: easily bio-degradable: BOD 28 = 92 % sa ThOD (UK/MITI toat.)

BIO-ACCUMULATION: not expected

ECO-TOXICITY: not dangerous to aquatic life

SECTION 13 – DISPOSAL CONSIDERATIONS

Recover the product as much as possible. Dispose of in incineration or disposal installations in compliance with the applicable local and national regulations.

Disposal in water streams, water drains, sewerage systems or in ground is an illegal procedure.

Remove labels from empty and reclaimed containers before disposal.

SECTION 14 – TRANSPORT INFORMATION

ROAD AND RAILWAY TRANSPORT (ADR / RID)

Proper shipping name: SACHE B/118

The product is not classified by ADR/RID normative

SEA TRANSPORT (IMO IMDG)

Proper shipping name: SACHE B/118

The product is not classified by IMO IMDG normative

SECTION 15 – REGULATORY INFORMATION

LABELLING AS PER ECC REGULATIONS 67/548/CEE, 1999/45/CE, AND ITALIAN D.M. 28.01.1992, D.M. 16.02.1993 N. 50 AND FOLLOWING EMENDAMENTS E/O MODIFICAZIONI

HAZARD SYMBOLS

Xi = irritant

RISKS PHRASES

R36: irritating to eyes

SAFETY PRECAUTION PHRASES

S23: avoid inhalation

S24/25: avoid contact with skin and eyes

S26: in case of contact with eyes, rinse immediately with plenty of waters and seek medical advice

S36/37/38: wear suitable protective clothing and eye and face protection

THE PRODUCTS ALSO CONTAINS: ===

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SECTION 16 – - OTHER INFORMATION

HAZARD SYMBOLS

T = toxic

C = corrosive

Xn = harmful

Xi = irritant

RISKS PHRASES

R22: harmful by ingestion

R34: it causes burns

R41: risks of serious damages to eyes

R66: repeated exposure may cause skin dryness or cracking

R67: vapours may cause drowsiness and dizziness R41: risk of serious damage to eyes

COMBINATION OF RISKS PHRASES

R20/21: harmful by ingestion and in contact with skin

R37/38: irritating to respiratory system and skin

NOTE QUALIFICATIONS:	EQ = equal	N/AP = not applicable
	AP = approximately	N/DA = data not available
	TR = traces	LEL = lower explosion limit
	N/D = information not avail	UEL = lower explosion limit

The data contained in this Safety Data Sheet comply with the regulation in force and correspond to our current knowledge on the subject. The purpose of this document is to protect the health and safety of industrial and commercial users, capable of understanding and acting according to the information provided. Please make sure that any appropriate person in your company, who is able to handle this data is aware of them. The information reported in the MSDS is not aimed at ensuring any specific property of the products themselves and represent neither a guarantee nor a technical specification of the supplied products
