

SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: RENOMAT.

Product code: 0514.

Company/undertaking identification:

Registered company name: AVEL.

Address: .16320.MAGNAC LAVALETTE.FRANCE.

Telephone: 05.45.64.74.74. Fax: 05.45.64.77.36.

avel@avel.com

www.avel.com

Emergency telephone: +33 (0)1 45 42 59 59.

Association/Organisation: INRS / ORFILA <http://www.centres-antipoison.net>.

2 - HAZARDS IDENTIFICATION

This product is classified: Highly flammable liquid.

Possibility of irritation to the skin.

Possibility of noxious effects with symptoms of slight poisoning by inhalation.

This preparation presents an aspiration hazard because of their low viscosity.

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

Preparation classification:



Harmful

R 51/53

R 38

R 20

R 11

R 65



Dangerous for the environment

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

Irritating to skin.

Harmful by inhalation.

Highly flammable.

Harmful: may cause lung damage if swallowed.



Highly flammable

Other data:

Packaging < 125 ml.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 3: see section 16.

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

INDEX	CAS	EC	Name	Symb.	R:	%
601-007-00-7	107-83-5	203-523-4	HEXANE, MIXTURE OF ISOMERS (CONTAINING < 5 % N-HEXANE (203-777-6))	Xn N F	11 38 65 67 51/53 Note(s): C 4	10 <= x % < 25
602-033-00-1	108-90-7	203-628-5	CHLOROBENZENE	Xn N	10 51/53 20	25 <= x % < 50

Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:

INDEX	CAS	EC	Name	Symb.	R:	%
607-025-00-1	123-86-4	204-658-1	N-BUTYL ACETATE		10 66 67	2.5 <= x % < 10

	68585-34-2	68585-34-2	LAURYLETHER SULFATE DE SODIUM(26-28%) EN SOLUTION DANS L'EAU	Xi	36/38	2.5 <= x % < 10
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Other substances with occupational exposure limits:
No known substance in this category present.

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

In the event of exposure by inhalation:

If a large quantity is inhaled, move the patient into the fresh air and keep him/her warm and still.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Do not give the patient anything orally.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

Refer the patient to an ophthalmologist, in particular if there is any redness, pain or visual impairment.

In the event of splashes or contact with skin:

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

DO NOT use solvents or thinners.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital

In the event of swallowing:

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Call a doctor immediately and show him the label.

5 - FIRE-FIGHTING MEASURES

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

Suitable extinguishing media:

Carbon dioxide, chemical powders, foams, and other extinguishing gases.

Extinguishing media which must not be used for safety reasons:

Water is not generally recommended since it can be ineffective; however, it can be used successfully to cool containers exposed to the fire and to disperse fumes.

Sometimes, and due to the presence of organic material, a fire may produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Special protective equipment for fire-fighters:

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

On account of the organic solvents contained in the preparation, eliminate sources of ignition and ventilate the premises.

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Handling:

Handle in well-ventilated areas.

The vapors are denser than air. They can spread along the ground and form explosive mixtures with air

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Never suck up this product.

Fire prevention:

Use the product in premises where there are no naked flames or other sources of ignition and have protected electrical equipment

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal safety, see §8.

Observe precautions stated on label and also industrial safety regulations

Packages which have been opened must be reclosed carefully and stored in an upright position

Avoid inhaling vapors.

Avoid contact of product with the skin and eyes

Prohibited equipment and procedures:

Smoking, eating and drinking are prohibited in premises where the preparation is used

Never open the packages under pressure

Storage:

Keep the container tightly closed in a dry, well-ventilated place

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION



Use personal protection equipment as per Directive 89/686/EEC.

Technical measures:

Ensure adequate ventilation, if possible with extractor fans at work posts and appropriate general extraction.

If this ventilation is insufficient to maintain the concentration of solvent vapors below the exposure limits, wear breathing apparatus

Exposure limit values per INRS ED 984:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP N°:
123-86-4	150	710	200	940	-	84
108-90-7	5	23	15	70	-	9
107-83-5	500	1800	-	-	-	84

Exposure limit values per 2006/15/CE, 2000/39/EC and 98/24/EC:

EC	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Notes:
108-90-7	47	10	94	20	-

Exposure limit values (2003-2006):

UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:
123-86-4	150 ppm	200 ppm	-	-	-
108-90-7	1 ppm	3 ppm	-	-	-
Germany/AGW	AGW:	AGW:	Faktor:	Bemerkungen:	
108-90-7	10 ml/m3	47 mg/m3	2(II)	DFG, Y	
107-83-5	200 ml/m3	720 mg/m3	2(II)	DFG	
ACGIH/TLV	TWA:	STEL:	Ceiling:	Definition:	Criterion:
123-86-4	150 ppm	200 ppm	-	-	-
108-90-7	10 ppm	-	-	-	-
107-83-5	500 ppm	1000 ppm	-	-	-
UK/MEL	TWA:	STEL:	Ceiling:	Definition:	Criterion:
108-90-7	1 ppm	3 ppm	-	-	-

UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:
123-86-4	150 ppm	200 ppm	-	-	-
Nederland	TWA:	STEL:	Ceiling:	Definition:	Criterion:
123-86-4	100 ppm	-	-	-	-
108-90-7	10 ppm	-	-	-	-
107-83-5	200 ppm	-	-	-	-
España	TWA:	STEL:	Ceiling:	Definition:	Criterion:
123-86-4	150 ppm	200 ppm	-	-	-
108-90-7	10 ppm	20 ppm	-	-	-
107-83-5	500 ppm	1000 ppm	-	-	-
USA/NIOSH REL	TWA:	STEL:	Ceiling:	Definition:	Criterion:
123-86-4	150 ppm	200 ppm	-	-	-
107-83-5	100 ppm	-	510 ppm	C-15 min ppm	-
USA/NIOSH IDLH	TWA:	STEL:	Ceiling:	Definition:	Criterion:
123-86-4	-	-	1700 ppm	-	-
108-90-7	-	-	1000 ppm	-	-
USA/OSHA PEL	TWA:	STEL:	Ceiling:	Definition:	Criterion:
123-86-4	150 ppm	-	-	-	-
108-90-7	75 ppm	-	-	-	-

Respiratory protection:

With this preparation, avoid in particular any inhalation of vapors.

Hand protection:

Protective creams may be used for exposed skin, but they should not be applied after contact with the product.

In the event of prolonged or repeated contact with the hands, use appropriate gloves.

Eye and face protection:

Avoid contact with the skin and eyes. Wear safety goggles

Provide eye washes in workshops where the product is constantly handled

Skin protection:

For further information, see § 11 of S.D.S. - Toxicological information.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state: fluid liquid

Important health, safety and environmental information:

pH of the substance or preparation: neutral.

When a pH measure is possible, it has a value of: not stated.

Boiling point/boiling range: not specified.

Flash point interval: Flash point <= 21°C

Vapour pressure: not relevant.

Density: < 1

Water solubility: Dilutable.

Other information:

melting point/melting range: not specified.

Self-ignition temperature: not specified.

Decomposition point/decomposition range : not specified.

10 - STABILITY AND REACTIVITY

When exposed to high temperatures, the preparation may release dangerous decomposition products such as carbon monoxide and dioxide, smoke and nitrogen oxide

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

Exposure to vapors from solvents contained in the preparation beyond the exposure limits stated may produce effects harmful to health, such as:

Irritation of mucous membrane and respiratory system, kidneys, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Prolonged or repeated contact with the preparation may strip the skin of its natural oil and thus cause non-allergic dermatitis on contact and absorption through the epidermis.

Splashes in the eyes may cause irritation and reversible damage

It is generally agreed that substances contained are likely to cause significant irritation which lasts for at least twenty four hours after application to the healthy, unbroken skin of an animal for a period of up to 4 hours.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

Ecotoxicity:

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

Other adverse effects:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

14 - TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2009).

Classification:



Pollutants to the aquatic environment:



UN1993=FLAMMABLE LIQUID, N.O.S.

(hexane, mixture of isomers (containing < 5 % n-hexane (203-777-6)), chlorobenzene)

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	33	LQ7	274 601 640E	E1	3	D/E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	3	-	III	5 L	F-E,S-E	223 274 955	E1

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	3	-	III	309	60 L	310	220 L	A3	-
	3	-	III	Y309	10 L	-	-	A3	-

15 - REGULATORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations

In addition directive 2008/58/EC with the 30° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

In addition directive 2009/2/EC with the 31° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

In addition Regulation (EC) No 1272/2008 have been taken into account.

Packaging < 125 ml.

Preparation classification:



Harmful



Dangerous for the environment



Highly flammable

Contains:

203-523-4
203-628-5

HEXANE, MIXTURE OF ISOMERS (CONTAINING < 5 % N-HEXANE (203-777-6))
CHLOROBENZENE

Particular hazards associated with the preparation and safety recommendations:

R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 38	Irritating to skin.
R 20	Harmful by inhalation.
R 11	Highly flammable.
R 65	Harmful: may cause lung damage if swallowed.
S 2	Keep out of the reach of children.
S 29	Do not empty into drains.
S 46	If swallowed, seek medical advice immediately and show this container or label.
S 61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S 13	Keep away from food, drink and animal feedingstuffs.
S 16	Keep away from sources of ignition - No smoking.
S 37	Wear suitable gloves.
S 25	Avoid contact with eyes.

Particular provisions:

Child-resistant fastenings (Annex IV A2- 1999/45/EC)

Tactile warning of danger.

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

NFPA 704 Label: Health=2 Flammability=3 Instability=1 Special Hazards=none



16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 3:

R 10	Flammable.
R 11	Highly flammable.
R 20	Harmful by inhalation.
R 36/38	Irritating to eyes and skin.
R 38	Irritating to skin.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65	Harmful: may cause lung damage if swallowed.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.

Labelling for contents (REGULATION (EC) No 648/2004 - 907/2006):
- 15 % or over but less than 30 % : anionic surfactants