



SAFETY DATA SHEET

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

Identification of the substance or preparation:

Name: TINTA ALUM. ALTA RES.AO CALOR.
Product code: 5250018M.

Company/undertaking identification:

Registered company name: TINTAS ROBBIALAC, S.A ..
Address: Vale de Lide, SACAVÉM.2696-901.Bobadela LRS.PORTUGAL.
Telephone: +351 21 9947700. Fax: +351 21 9947796.
Email: fs@robbialac.pt
Web site: www.robbialac.pt
Outro N.º de telefone de Emergência: +351 21 9947700 (24 horas)

Emergency telephone: +351 808 250 143.

Association/Organisation: Centro de Informação Antivenenos (CIAV).

Use of the substance/preparation:

See ITC.

2 - HAZARDS IDENTIFICATION

This product is classified: Flammable.

Repeated exposure may cause skin dryness or cracking.

Vapors may cause drowsiness and dizziness.

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

Preparation classification:



Dangerous for the environment

R 51/53

R 10

R 66

R 67

Flammable

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

Flammable.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

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)

This preparation contains no hazardous substance in this category.

Other substances representing a hazard:

INDEX	CAS	EC	Name	Symb.	R:	%
000 000 00 6	64742-95-6	265-199-0	NAFTA DE PETRÓLEO(PETRÓLEO), AROMÁTICA LEVE	Xn N	Xn;R65 Xi; R37 N; R51/53 R10 R66 R67 Note(s): H 4	2.5 <= x % < 10

000 000 00 7	64742-82-1	265-185-4	NAFTA (PETROLIO) PESADA HIDROGENODESSULFURUZADA	Xn N	Xn; R65 N; R51/53 R10 R66 R67 Note(s): H 4	10 <= x % < 25
601-025-00-5	108-67-8	203-604-4	MESITYLENE	Xi N	Xi; R37 N; R51/53 R10	0 <= x % < 2.5
601-043-00-3	95-63-6	202-436-9	1,2,4-TRIMETHYLBENZENE	Xn N	Xn; R20 Xi; R36/37/38 N; R51/53 R10	2.5 <= x % < 10

Substances present at a concentration below the minimum danger threshold:

INDEX	CAS	EC	Name	Symb.	R:	%
601-022-00-9	1330-20-7	215-535-7	XYLENE	Xn	Xn; R20/21 Xi; R38 R10 Note(s): C	2.5 <= x % < 10
601-023-00-4	100-41-4	202-849-4	ETHYLBENZENE	Xn F	Xn; R20 F;R11	0 <= x % < 2.5

Other substances with occupational exposure limits:

INDEX	CAS	EC	Name	Symb.	R:	%
013-002-00-1	7429-90-5	231-072-3	ALUMINIUM POWDER (STABILISED)	F	F;R11 R15 Note(s): T	10 <= x % < 25

Other components:

INDEX	CAS	EC	Name	Symb.	R:	%
000 000 00 4	64742-48-9		NAFTA (PETRÓLEO),PESADA TRATADA C/HIDROGÉNIO	Xn	Xn;R65 R10 R66 Note(s): H 4	2.5 <= x % < 10

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.

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.

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.

If swallowed accidentally, call a doctor to assess the need for monitoring and subsequent treatment in hospital. Show him the label.

5 - FIRE-FIGHTING MEASURES

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

Suitable extinguishing media:

In the event of fire, use specifically suitable extinguishing agents. Never use water.

Extinguishing media which must not be used for safety reasons:

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.

Due to the toxicity of the gas emitted on thermal decomposition of the products, 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.
- 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.

Fire prevention:

- Prevent the accumulation of electrostatic charges with connections to earth
- The preparation may become electrostatically charged; always place on the ground during transfer. Wear antistatic shoes and clothes and make floors of conductive materials.
- 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
- Avoid inhaling solvent vapors and spray-gun aerosols
- Packages which have been opened must be reclosed carefully and stored in an upright position
- Avoid inhaling vapors.
- Where the personnel must carry out work in a booth, whether for spraying or otherwise, the ventilation may be inadequate to control particles and solvent vapors in every case.
- It is therefore recommended that personnel wear masks with a compressed air supply during spraying operations until the concentration of particles and solvent vapors has fallen below the exposure limits.

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 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°:
95-63-6	20	100	50	250	-	84
108-67-8	20	100	50	250	-	84
100-41-4	20	88.4	100	442	*	84
1330-20-7	50	221	100	442	*	4 Bis, 84, *
7429-90-5	-	10	-	-	-	-

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:
95-63-6	100	20	-	-	-
108-67-8	100	20	-	-	-
100-41-4	442	100	884	200	Peau
1330-20-7	221	50	442	100	Peau

Exposure limit values (2003-2006):

UK/WELs	TWA:	STEL:	Ceiling:	Definition:	Criterion:
95-63-6	25 ppm	-	-	-	-
108-67-8	25 ppm	-	-	-	-
100-41-4	100 ppm	125 ppm	-	-	-
1330-20-7	50 ppm	100 ppm	-	-	-
7429-90-5	2 mg/m3	-	-	-	-
UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:
95-63-6	25 ppm	-	-	-	-
108-67-8	25 ppm	-	-	-	-
100-41-4	100 ppm	125 ppm	-	-	-
1330-20-7	50 ppm	100 ppm	-	-	-
7429-90-5	10 mg/m3	-	-	-	TI
7429-90-5	4 mg/m3	-	-	-	R
7429-90-5	2 mg/m3	-	-	-	-

Respiratory protection:

Where workers encounter concentrations higher than the exposure limits, they must wear suitable, approved masks.

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:

Use eye protectors designed to protect against liquid splashes

Skin protection:

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

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state: viscous liquid

Important health, safety and environmental information:

pH of the substance or preparation: not relevant.

The pH is impossible to measure or its value is not relevant.

Boiling point/boiling range: not relevant.

Flash point interval: 23°C <= Flash point <= 55°C

Vapour pressure: not relevant.

Density: > 1

Water solubility: Insoluble.

Other information:

melting point/melting range: not relevant.

Self-ignition temperature: not relevant.

Decomposition point/decomposition range : not relevant.
VOC (g/l): 488.8

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

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

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.

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:



UN1263=PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	III	3	30	LQ7	163 640E 650	E1	3	D/E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ
	3	-	III	5 L	F-E,S-E	163 223 955	E1

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	3	-	III	309	60 L	310	220 L	A3 A72	E1
	3	-	III	Y309	10 L	-	-	A3 A72	E1

15 - REGULATORY INFORMATION

Classification by:

So called 'all preparations' Directive 1999/45/EC and its adaptations.

EC regulation 1272/2008 (CLP) and its adaptations (EC regulation 790/2009).

Preparation classification:



Dangerous for the environment

Flammable

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 10	Flammable.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.
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 51	Use only in well-ventilated areas.
S 23	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
S 24/25	Avoid contact with skin and eyes.
S 56	Dispose of this material and its container to hazardous or special waste collection point.
	Em caso de incêndio, utilizar pó químico seco, anidrido carbônico ou areia. NUNCA UTILIZAR ÁGUA.

Particular provisions:

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 15	Contact with water liberates extremely flammable gases.
R 20	Harmful by inhalation.
R 20/21	Harmful by inhalation and in contact with skin.
R 36/37/38	Irritating to eyes, respiratory system and skin.
R 37	Irritating to respiratory system.
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.

2004/42/EC (COV):

The permitted European levels of VOC in the ready-to-use product (category II Ai) are 600 g/l maximum in 2007 and 500 g/l maximum in 2010.

The permitted European level of VOC in this ready-to-use product is limited to 499 g/l.