



Written by -
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Technical Manager

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SAFETY DATA SHEET AEROPRIM EPU 523 Hardener

1 - IDENTIFICATION OF PREPARATION AND COMPANY/BUSINESS

Preparation:

Name: **AEROPRIM EPU 523 Hardener**

Product code: 12 023 000 D - 21 023 000 D

Company/business:

Registered company name: SICOMIN

Address: BP23 – RN 568-13161 CHATEAUNEUF LES MARTIGUES Cedex

E.mail: Composites@sicomin.com

Telephone 33 (0)4 42 42 30 20 Fax: 33 (0)4 42 81 29 29

Emergency telephone No.: 01 45 42 59 59 . Association/Organisation: ORFILA.

2 - INFORMATION REGARDING CONSTITUENTS

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)

601-022-00-9 XYLENE Concentration \geq 10.00% and $<$ 25.00%. Symbol: Xn R: 10-38-902-20/21

Other substances representing a hazard:

601-023-00-4 ETHYLBENZENE Concentration \geq 2.50% and $<$ 10.00%. Symbol: Xn F R: 11-20-902

607-195-00-7 2-METHOXY-1-METHYLETHYL ACETATE Concentration \geq 10.00% and $<$ 25.00%. Symbol: Xi R: 10-36

615-011-00-1 HEXAMETHYLENE-DI-ISOCYANATE Concentration \geq 0.00% and $<$ 2.50%. Symbol: T R: 23-36/37/38-42/43

Substances present at a concentration below the minimum danger threshold.

No known substance in this category present.

Other substances with occupational exposure limits.

606-004-00-4 METHYL ISOBUTYL KETONE Concentration \geq 10.00% and $<$ 25.00%. Symbol: F R: 11

3 - IDENTIFICATION OF HAZARDS

This product is classed: Flammable.

Possibility of irritation to the eyes and skin.

Possibility of acute, lethal, noxious effects with symptoms of slight poisoning by inhalation and contact with the skin.

4 - FIRST AID

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.** In the event of inhalation, 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. Keep still. DO NOT induce vomiting.

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. In the event of fire, the recommended extinguishing agents are: Carbon dioxide, chemical powders, foams, and other extinguishing gases.

In the event of fire, use specifically suitable extinguishing agents. Never use water. **Extinguishing agents not to be used**

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. A fire will often 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 equipment for fire-fighting personnel.**

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

6 - MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL SPILLAGE

Safety precautions: Eliminate any possible source of ignition and ventilate the premises. Avoid inhaling the fumes.

Avoid any contact with the skin and eyes.

Consult the safety measures listed under headings 7 and 8.

Environmental safety precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatom 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

Cleaning methods:

Clean preferably with a detergent, do not use solvents.

Contaminated areas must be cleaned very quickly.

A possible decontaminant for flammable products may be: (expressed by volume) water (45 parts), ethanol or isopropanol (50 parts), concentrated ammonia (d-0.880) (5 parts). For non-flammable products: sodium carbonate (5 parts), water (95 parts).

These residues must be stored for disposal in accordance with applicable regulations (see 13).

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 fumes 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 vapour 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

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 fumes.



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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 fumes 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 fumes has fallen below the exposure limits.

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 CONTROL - PERSONAL SAFETY

Anyone with a history of skin sensitisation, asthma, allergies, chronic or periodic respiratory problems must on no account use these preparations

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 fumes below the exposure limits, wear breathing apparatus

Exposure limits per INRS ND 1945-153-93/(1996) and ND 2022-163-96:

| France N°: | VME-ppm: | VME-mg/m3: | VLE-ppm: | VLE-mg/m3: | Notes: | TMP |
|--------------|----------|------------|------------|-------------|--------|--------|
| 601-022-00-9 | 100 | 435 | 150 | 650 | - | 4bis, |
| 84 | | | | | | |
| 601-023-00-4 | 100 | 435 | - | - | - | 84 |
| 606-004-00-4 | 50 | 205 | - | - | - | 84 |
| 607-195-00-7 | - | - | - | - | - | - |
| 615-011-00-1 | 0,01 | 0,075 | 0,02 | 0,15 | AR | 62 |
| Germany | Class: | MAK-ppm: | MAK-mg/m3: | Notes: | Notes: | |
| 601-022-00-9 | II,1 | 100 | 440 | - | - | |
| 601-023-00-4 | - | 100 | 440 | * | - | |
| 606-004-00-4 | II,2 | 100 | 400 | - | - | |
| 607-195-00-7 | I | 50 | 275 | - | - | |
| 615-011-00-1 | I | 0,01 | 0,07 | Sens | - | |
| ACGIH(TLV) | TWA-ppm: | TWA-mg/m3: | STEL-ppm: | STEL-mg/m3: | Notes: | Notes: |
| 601-022-00-9 | 100 | 434 | 150 | 651 | - | |
| 601-023-00-4 | 100 | 434 | 125 | 543 | - | |
| 606-004-00-4 | 50 | 205 | 75 | 307 | - | |
| 607-195-00-7 | - | - | - | - | - | |
| 615-011-00-1 | 0,005 | 0,034 | - | - | - | |

Safety breathing apparatus: With this preparation, avoid in particular any inhalation of fumes.

Hand protection. Protective creams may be used for exposed skin, but they should not be applied after contact with the product. Due to the solvents present, it is recommended that polyvinyl alcohol or nitrile rubber gloves be worn.

Eye and face protection. Avoid contact with eyes. Wear safety goggles. Provide eye washes in workshops where the product is constantly handled **Skin protection.** Wear antistatic clothing made of natural fibre or synthetic fibre resistant to high temperatures. After contact with the product, any contaminated part of the body shall be washed

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

9 - PHYSICAL PROPERTIES

| | |
|---|-------------------------------|
| Density: | < 1 |
| Acid/base character of preparation: | not relevant. |
| Solubility of preparation in water: | Insoluble. |
| Vapour tension at 50°C of volatile constituents: | Below 110Kpa (1.10 bar). |
| Physical state: | fluid liquid |
| Flash point interval: | 21°C. < Flash point: <= 55°C. |
| The pH is impossible to measure or its value is not relevant. | |
| Self-ignition temperature: | 354 °C. |
| Decomposition temperature: | not relevant. |
| Melting temperature interval: | -80 °C. |
| Average distillation temperature of solvents contained: | 117 °C. |

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
It may also release hydrogen cyanide, amines and alcohols.

Keep away from oxidising agents and strongly acidic or basic materials to avoid exothermic reactions
Exothermic reactions occur with amines and alcohols. The preparations react slowly with water and give off carbonic gas which may produce pressure increases in closed packages

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

Exposure to fumes 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 the appearance of major lesions which persist for at least twenty-four hours after application to the eye of an animal and 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. Based on the properties of isocyanates and taking into account toxicological data for similar preparations, this preparation may cause irritation and/or sensitisation of the respiratory system. It may also lead to asthma, respiratory problems and angina Those susceptible may display asthmatic symptoms when exposed to atmospheres with an isocyanate concentration well below those of the VLE: exposure limits.

Repeated exposure may cause permanent respiratory problems.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

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

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

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

UN 1263 = Paint flammable (including lacquer, enamel, stain, shellac, varnish, polish and related material).

| ADR/RID | Class | Number | Code | Identif. | Label |
|---------|-------|--------|------|----------|-------|
| | 3 | 31° c) | 30 | 1263 | 3 |

| IMDG | Page | N°ONU | Class | Number | 2°Label | Identif. | N°GSMU |
|------|------|-------|-------|--------|---------|----------|--------|
| | | | | | | | |



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The page number 3372 should not appear anymore on the Dangerous Goods Declaration (Amendment 28-96).

| IATA | N°ONU | Class | 2°Label | Number | Passenger | Passenger | Freighter | | |
|------|-----------|-------|---------|--------|-----------|-----------|-----------|-------|-----|
| | Freighter | nota | | | | | | | |
| | 1263 | 3 | - | III | 309 | 60 L | 310 | 220 L | A72 |
| | 1263 | 3 | - | III | Y309 | 10 L | - | - | - |

15 - STATUTORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 88/379/EEC and its adaptations In addition directive 96/54/EC with the 22° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account. Contains compounds with an isocyanate base - refer to the information supplied by the manufacturer. This information is found on this safety data sheet Preparation classification.

Harmful. Flammable.

Contains:

601-022-00-9 XYLENE

601-023-00-4 ETHYLBENZENE

615-011-00-1 HEXAMETHYLENE-DI-ISOCYANATE

Particular hazards associated with the preparation and safety recommendations:

R 36/38 Irritating to eyes and skin.

R 20/21 Harmful by inhalation and in contact with skin.

R 10 Flammable.

Contains isocyanates. See information supplied by the manufacturer.

S 26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S 36/37 Wear suitable protective clothing and gloves.

S 23 Do not breathe vapour.

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