

SAFETY DATA SHEET

Print Date : 2004-06-10.

Date of issue : 2004-06-02.

1. Identification of the substance/preparation and of the company/undertaking

Product name : WHITE FLAME RET. A/C PRIMER
Product Code : DF2002-9001
Product Use : Industrial applications.
Used by Spraying : Yes.
Manufacturer : Becker Acroma Ltd
Rookwood Way
Haverhill
Suffolk, CB9 8PQ
+44 (0)1440 703611
Emergency telephone number : Becker Acroma, +44 (0)1440 708158

2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

| Chemical name* | CAS No. | EC Number | % | R-Phrases |
|----------------------|-----------|-----------|-------|--|
| Xylene | 1330-20-7 | 215-535-7 | 10-25 | R10 Xn; R20/21 Xi; R38 F; R11 |
| Ethanol | 64-17-5 | 200-578-6 | 1-5 | R10 |
| 1-Methoxypropan-2-ol | 107-98-2 | 203-539-1 | 1-5 | R10 |
| Isobutanol | 78-83-1 | 201-148-0 | 0.5-1 | R10 Xi; R37/38, 41 R67 |
| Isopropyl alcohol | 67-63-0 | 200-661-7 | 0.5-1 | F; R11 Xi; R36 R67 |

* Occupational Exposure Limit(s), if available, are listed in section 8

3. Hazards identification

Physical/Chemical Hazards : Highly flammable.
Human health hazards : Harmful by inhalation and in contact with skin.

4. First aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. If unconscious, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person.
Inhalation : Remove to fresh air. Keep person warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

- Eye Contact** : Immediately irrigate copiously with clean water for 5-10 minutes, keeping eyelids open. Get medical attention.
- Skin Contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use a suitable skin cleaner. Do NOT use solvents or thinners.
- Ingestion** : Seek immediate medical attention. Keep person warm and at rest. DO NOT induce vomiting. If vomiting, hold down the head to reduce the risk of getting stomach content into the lungs.
- Burns** : Rinse with water until the pain ceases. During rinsing, remove clothes, which are not burnt on, from the damaged area. In severe cases, rinse with tepid water for 30-40 minutes or until medical staff arrive. If possible, protect the burnt area with a bandage, clean towel or similar. Prevent shock.

5. Fire-fighting measures

Extinguishing media

- Suitable** : Dry chemical, carbon dioxide, foam, water fog. Closed containers may be cooled with water spray.
- Not suitable** : Do NOT use a jet of water, water from buckets etc., which may spread the fire.
- Hazardous thermal decomposition products** : Refer to MSDS: # Section 10

6. Accidental release measures

- Personal precautions** : Avoid contact with skin and eyes. Avoid inhalation of vapors and spray mist. Refer to protective measures listed in sections 7 and 8. Keep unnecessary personnel away. No smoking.
- Spill** : Prevent entry into sewers, basements or confined areas; dike if needed. Absorb with DRY earth, sand or other non-combustible material. In case of a major spill, contact the Fire Department.
Keep away from sources of ignition and ventilate the area.

7. Handling and storage

- Handling** : Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.

Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this product is handled. Personal Protective Equipment, see section 8. Keep away from incompatibles mentioned in section 10.

The product must not be used near open flames or other sources of ignition. Use approved electrical equipment to avoid explosion. The product may charge electrostatically. Always connect containers to ground, and from the source to the recipient container, when transferring from one to another. Only non-sparking tools should be used.
- Storage** : Keep container tightly closed. Store in a dry, cool and well-ventilated area. Storage temperature: refer to the Technical Data Sheet. Keep away from incompatibles mentioned in section 10.

Store in accordance with applicable regulations for flammable liquids. Isolate from sources of heat, sparks, open flame and other sources of ignition.
- Packaging materials** : Never use pressure to empty: container is not a pressure vessel. Always keep in containers made from the same material as the original one.

8. Exposure controls/personal protection

- Engineering measures** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective Occupational Exposure Limits. Ensure that eyewash stations and safety showers are close to the workstation location.
- Hygiene measures** : Wash hands, forearms, and face thoroughly after handling and before eating, smoking, using lavatory, and at the end of the day. Always immediately wash contaminated skin. Apply a suitable skin lotion.

| <u>Ingredient Name</u> | <u>Occupational Exposure Limits</u> |
|------------------------|---|
| Xylene | EH40-OES (United Kingdom (UK), 2002). Skin STEL: 441 mg/m ³ STEL: 100 ppm TWA: 220 mg/m ³ TWA: 50 ppm |
| Ethanol | EH40-OES (United Kingdom (UK), 2002). TWA: 1920 mg/m ³ TWA: 1000 ppm |
| 1-Methoxypropan-2-ol | EH40-OES (United Kingdom (UK), 2002). Skin STEL: 560 mg/m ³ STEL: 150 ppm TWA: 375 mg/m ³ TWA: 100 ppm |
| Isobutanol | EH40-OES (United Kingdom (UK), 2002). STEL: 231 mg/m ³ STEL: 75 ppm TWA: 154 mg/m ³ TWA: 50 ppm |
| Isopropyl alcohol | EH40-OES (United Kingdom (UK), 2002). STEL: 1250 mg/m ³ STEL: 500 ppm TWA: 999 mg/m ³ TWA: 400 ppm |

Personal protective equipment

- Respiratory system** : Wear appropriate respirator when ventilation is inadequate. If exposure to dust cannot be avoided by local exhaust ventilation, suitable dust filter must be used.
- Eyes** : Wear safety glasses or other suitable protective equipment if there is a risk of splashing.
- Skin and body** : Wear suitable protective clothing. Cotton or cotton/synthetic overalls are normally suitable. Do NOT use clothes, which readily charge electrostatically.
- Hands** : Wear suitable gloves.

9. Physical and chemical properties

- Physical state** : Liquid.
- Density** : 1.401 g/cm³
- Flash point** : Closed cup: 12°C (53.6°F).
- Auto-ignition temperature** : The lowest known value is 277°C (530.6°F) (1-Methoxypropan-2-ol).
- Explosion Limits** : Lowest Lower : 1%-v/v, Highest upper : 19%-v/v.
- Vapor Pressure** : The highest known value is 5.9 kPa (44.3 mm Hg) (at 20°C) (Ethanol).
Weighted average: 1.69 kPa (12.68 mm Hg) (at 20°C)
- Boiling Point** : >35°C (95°F)
- VOC Content** : Contains 26.7666 wt% VOC. Contains 21.0679 wt% Carbon as VOC. This product contains VOC. You may be subject to environmental control legislation under Integrated Pollution Control (IPC) or Integrated Pollution & Prevention (IPPC) Regulations. Contact your local Environmental Agency Office if in doubt.

10. Stability and reactivity

| | |
|---|---|
| Stability | : The product is stable. |
| Reactivity | : Reactive with oxidizing agents. Slightly reactive to reactive with acids. |
| Hazardous thermal decomposition products | : These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...). |

11. Toxicological information

| | |
|--------------------------|---|
| Inhalation | : Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. During curing, formaldehyde is formed and emitted. Formaldehyde may induce reactions similar to asthma. |
| Eye Contact | : Can cause irritation and temporary damage if splashes come in contact with the eye. |
| Skin Contact | : Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Formed free formaldehyde may cause sensitisation and allergic eczema. |
| Ingestion | : Ingestion may lead to stomach pains, nausea, vomiting and other symptoms, similar to those caused by inhalation. |
| Other Information | : During curing, formaldehyde is formed and emitted. Formaldehyde is classified as potentially carcinogenic. |

12. Ecological information

| | |
|--------------------|---|
| Ecotoxicity | : There is no data available on the preparation itself. |
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13. Disposal considerations

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|--|--|
| European Waste Catalogue (EWC) | : 080102 |
| Hazardous Waste Methods of disposal | : The classification of the product may meet the criteria for a hazardous waste Do not allow to enter drains or watercourses. Ship for treatment/disposal in accordance with local regulations. |


14. Transport information

| | |
|-----------------------------|---------|
| UN number | : 1263 |
| ADR/RID Class | : 3 |
| ADR/RID Item number | : 5(b) |
| Proper shipping name | : Paint |
| Packing Group | : II |
| ADR/RID label | : |



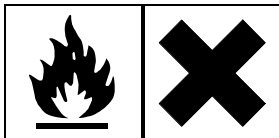
IMDG Class : 3
Packing Group : II
IMDG label : 

Medical First Aid Guide (MFAG) : 310
Emergency Schedules (EmS) : 3-05
Marine pollutant : Not pollutant.

IATA-DGR Class : 3
IATA label : 

15. Regulatory information

Classification

Hazard symbol(s) : 

Classification : Highly flammable

Risk Phrases : R11- Highly flammable.
 R20/21- Harmful by inhalation and in contact with skin.

Safety Phrases : S16- Keep away from sources of ignition - No smoking.
 S23- Do not breathe spray or vapor.
 S33- Take precautionary measures against static discharges.
 S36/37- Wear suitable protective clothing and gloves.
 S38- In case of insufficient ventilation, wear suitable respiratory equipment.

Contains : Xylene 215-535-7

Other Information

Additional Warning Phrases : Not applicable.

Restriction to Market Directive : Not applicable.

16. Other information

Full text of R phrases referred to in Sections 2 and 3 United Kingdom (UK) :
Full text of classifications referred to in Sections 2 and 3 United Kingdom (UK) :
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Notice to Reader

The information in this Safety Data Sheet is based on the present state of our knowledge, and on current EU regulations and national laws. It provides guidance on health, safety and environmental aspects of the product, and should not be constructed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1, without first referring to the supplier and obtaining written handling instructions. As the specific conditions of the use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.