

MATERIAL SAFETY DATA SHEET

Microballons phénoliques

DATE OF ISSUE : 09 AUGUST 2000

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

IDENTIFICATION OF THE SUBSTANCE

CHEMICAL NAME : Phenol formaldehyde resin
CHEMICAL FAMILY : Phenolic resin
FORMULA : Not applicable
CAS AND NAME : 9003-35-4 Phenol, polymer with formaldehyde
SYNONYMS, TRADE NAMES : Microballons Phénoliques

COMPANY IDENTIFICATION : MANUFACTURER

SICOMIN Composites

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2.0 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CONCENTRATION BY % WEIGHT	HAZARD	DANGER SYMBOL(S)
Phenolic resin (CAS 9003-35-4)	100	See Section 3	None

3.0 HAZARDS IDENTIFICATION

HEALTH HAZARD DATA

EFFECTS OF A SINGLE EXPOSURE : Swallowing - No evidence of harmful effects from available information.
: Skin absorption - No evidence of harmful effects from available information.
: Inhalation - Short term harmful effects are not expected from vapour generated at ambient temperature.
: Skin contact - No evidence of harmful effects from available information.
: Eye contact - May cause irritation, experienced as stinging with excess blinking and tear production. Redness and swelling of the conjunctiva may occur.

EFFECTS OF REPEATED EXPOSURE : This material may contain trace amount (<0.001%) of free formaldehyde, which is listed by IARC, NTP and OSHA as a carcinogen.
There should be minimal risk when adequate ventilation is used due to the very low formaldehyde concentration.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE : A knowledge of the available toxicology information and of the physical and chemical properties of the materials suggest that overexposure is unlikely to aggravate existing medical conditions.

OTHER EFFECTS OF OVEREXPOSURE : None known currently.

4.0 FIRST AID MEASURES

SWALLOWING

No emergency care anticipated.

INHALATION

No emergency care anticipated.

SKIN CONTACT

Remove contaminated clothing. Wash skin with soap and water. Obtain medical attention if irritation persists. Wash clothing before reuse.

EYE CONTACT

Immediately flush eyes with water and continue washing several minutes. Obtain medical attention if discomfort persists.

NOTES TO PHYSICIAN

There is no specific antidote. Treatment or overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5.0 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Apply alcohol type or all purpose type foams by manufacturer's recommended technique for large fires. Use carbon monoxide or dry chemical media for small fires.

EXTINGUISHING MEDIA TO BE AVOIDED

None

SPECIAL FIRE FIGHTING PROCEDURES

Do not direct a solid stream of water or foam into burning molten material: this may cause spattering and spread of fire.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Use self-contained breathing apparatus and protective coating.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Avoid dispersion of dust in air to reduce potential of dust ignition/explosions. Formaldehyde and phenol may form under fire conditions.

6.0 ACCIDENTAL RELEASE MEASURE

Wear suitable protective clothing. Collect for disposal.

7.0 HANDLING AND STORAGE

HANDLING

GENERAL PRECAUTION : Avoid dispersion of dust in air.
: Avoid sparks and flame under dust conditions.
: Use with adequate ventilation.
: Electrically bond and ground all equipment.
: Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and call the physician if necessary.

VENTILATION : Special, local ventilation is recommended in areas where containers are opened and their contents are discharged or in any areas where dusting conditions may develop.

OTHER PRECAUTION : [CAUTION] May undergo spontaneous smouldering if stored or heated in bulk above 35 °C under conditions allowing air ingress to the product. Store package material in a cool, well ventilated area.
: Do not store in the sun.
: Do not dry in package - use special drying instructions as in 7.1.4.
: Microspheres will undergo oxidation at elevated temperatures. Due to the microspheres' excellent insulating characteristics, the internal temperature of the mass can increase to the point where spontaneous ignition and smouldering can occur. The temperature at which this occur is a function of the geometry, amount of material being heated and available oxygen. Smouldering appears as a soft glow similar to burning charcoal.

DRYING INSTRUCTIONS FOR THERMOSET MICROSPHERES : To reduce the moisture content of this product to less than 4%, dry a two inch layer or less of the product at a maximum temperature of 75 C for 24 hours. To prevent oven or product contamination, the metal drying tray should be covered with a cloth that will allow the product moisture to evaporate. While handling the microspheres, precaution should be taken to prevent dispensing of the material in air to form dust. Any finely divided organic material dispersed in air can be ignited and under some condition develop into dust explosion.

STORAGE

Keep container closed.

8.0 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE LIMIT

No exposure limit has been established.

PERSONAL PROTECTION

RESPIRATORY PROTECTION : Dust respirator, if dusting condition exists.

HAND PROTECTION/PROTECTIVE GLOVES : General working gloves are acceptable.

EYE PROTECTION : Safety glasses.

OTHER PROTECTIVE EQUIPMENT : Eye bath and safety shower.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	: Hollow spheres
COLOUR	: Red brown
ODOUR	: No odour specified
MOLECULAR WEIGHT	: > 10,000
BOILING POINT	: Not applicable
FREEZING POINT	: Not applicable
MELTING POINT	: Not applicable
SPECIFIC GRAVITY (WATER = 1)	: Not applicable
VAPOUR PRESSURE	: Not applicable
VAPOUR DENSITY (AIR = 1)	: Not applicable
SOLUBILITY IN WATER (BY % WEIGHT)	: None specified
PERCENTAGE VOLATILES	: (maximum) 4 --- → water

10.0 STABILITY AND REACTIVITY

STABILITY

GENERAL : Stable

CONDITIONS TO AVOID : None known

INCOMPATIBLE MATERIALS : Strong oxidising agents

: Strong acids

: Strong alkalis

: Halogens

Acyl halides

HAZARDOUS COMBUSTION PRODUCTS : Burning or thermal decomposition can produce the following combustion or decomposition products : Phenol, Formaldehyde, Carbon monoxide and/or carbon dioxide.
Carbon monoxide is highly toxic if inhaled : carbon dioxide in sufficient concentration can act as an asphyxiant.

POLYMERIZATION

GENERAL : Will not occur.

CONDITIONS TO AVOID : None known.

11.0 TOXICOLOGICAL INFORMATION

ACUTE TOXICOLOGICAL INFORMATION

All available information with relevance to human health hazard evaluation is indicated under Section 11.3

SUB-ACUTE/SUB-CHRONIC/CHRONIC TOXICOLOGICAL INFORMATION

All available information with relevance to human health hazard evaluation is indicated under Section 11.3

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH

Formaldehyde has been shown to cause cancer in laboratory animals and mutations in a variety of in-vitro test systems. The relevance of these findings for human is unknown. Formaldehyde is listed as a carcinogen by IARC, NTP and OSHA.

ADDITIONAL INFORMATION

May cause skin and eyes irritation by contact.

12.0 ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY

All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this Safety Data Sheet.

EFFECTS ON WASTE WATER TREATMENT SYSTEMS

No information currently available.

ENVIRONMENTAL RISKS

All available ecological data have been taken into account for the development of the hazard and precautionary information contained in this Safety Data Sheet.

13.0 DISPOSAL CONSIDERATIONS

METHODS

Incinerate in a furnace or otherwise dispose off in accordance with appropriate National and Local regulations.

14.0 TRANSPORT INFORMATION

TRANSPORT CLASSIFICATION

ADR/RD	: This product is not submitted to the ADR regulations.
MONT-BLANC	: OK
IMDG	: This product is not submitted to the IMO regulations
MARPOL	: ANNEX II - Not evaluated at this moment ANNEX III - Not classified
ICAO	: This product is not submitted to the ICAO regulations

15.0 REGULATORY INFORMATION

EC CLASSIFICATION

DANGER SYMBOL(S)	: None
LABEL TEXT	: CAUTION ! May undergo spontaneous smouldering if stored or heated in bulk above 35 C under conditions allowing air ingress to the product. Store in cool, well ventilated area. Do not store in the sun. Do not dry in package - see special drying instructions. FOR INDUSTRIAL USE ONLY.

REGULATORY DATA OF UNITED KINGDOM

All other National and Local regulations, if applicable to the use, transport or disposal of this product, should be observed.

CHEMICAL INVENTORY INFORMATION

EINECS	: The monomer of this polymer is listed in the EINECS inventory.
TSCA	: The ingredients of this product are on the TSCA inventory.
DSL	: This product is on the DSL inventory.

16.0 OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS : Please consult the product and/or applications information bulletins for this product.

REVISED SECTIONS IN THIS ISSUE : All sections in this issue have been revised.