

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

PRODUCT NAME: 'ELVACITE' ACRYLIC RESIN - POLY(nBMA) BASED

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2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION

Polymer based on n-Butyl Methacrylate.

The following grade codes are covered by this Safety Data Sheet;
'Elvacite' 2044.

CAS No. 009003-63-8

HAZARDOUS INGREDIENT(S)	CAS No.	Symbol R Phrases
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No classifiable hazardous ingredient(s).

(613) - 266 600
Mr. Hess

DMS direct (H)
(Marketing)

3. HAZARDS IDENTIFICATION

Combustible but not readily ignited.
Low toxicity under normal conditions of handling and use.

7. HANDLING AND STORAGE

7.1 HANDLING

Product as supplied:

Avoid contact with eyes. Avoid prolonged skin contact.

Unlikely to represent a dust hazard under normal handling conditions.

Process Hazards

The product is supplied for a wide range of industrial applications and therefore it is impossible to make detailed recommendations regarding all process hazards. The following constitutes general advice:

Extra care should be taken to prevent burns from contact with hot material.

All polymers degrade to some extent at their processing temperature, an effect which increases with increasing temperature. It is therefore possible to be precise about which substances may be evolved.

However, it is only the minor components which vary substantially. The major components are given in Section 10.

If the product is to be used in applications for which the hazards are not fully understood it is recommended to consult the supplier before use.

7.2 STORAGE

'ELVACITE' acrylic polymers are supplied in either bags or bulk containers. Keep containers in a clean, cool and dry area away from heat sources. Natural ventilation is adequate.

Storage Temperature : ambient.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

The following information is given as general guidance.

- Respirators **NORMAL HANDLING:** A suitable dust mask or dust respirator with filter type P may be appropriate. In the unlikely event of formation of particularly high levels of dust a self contained breathing apparatus may be appropriate.

THERMAL PROCESSING: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A

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- suitable mask with filter type A may be appropriate. In the unlikely event of formation of particularly high levels of vapour a self contained breathing apparatus may be appropriate.
- Eye Protection Safety spectacles/Full face shield.
 - Gloves NORMAL HANDLING: Not normally required.
THERMAL PROCESSING: Wear thermal insulating gloves when handling hot masses.
 - Other Wear suitable protective clothing. For information regarding process hazards refer to Section 7, Handling and Storage.

The following values apply to substances which may be evolved during thermal processing.

Occupational Exposure Limits

HAZARDOUS INGREDIENT(S)	LTEL 8hr TWA ppm	TWA mg/m3	STEL PPM	mg/m3	Time mins
n-Butyl Methacrylate	50	300	-	-	- COM

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	beads
Colour	white
Odour	sweet
pH (Value)	Not available.
Boiling Point (Deg C)	Not applicable.
Melting Point (Deg C)	Not applicable.
Flash Point (Deg C)	Not available.
Flammable Limits	Not applicable.
Auto Ignition Temperature (Deg C)	Not available.
Explosive Properties	Not applicable.
Oxidising Properties	Not applicable.
Vapour Pressure (mm Hg)	Not applicable.
Vapour Pressure (Pascals)	Not applicable.
Solubility (Water)	negligible
Partition Coefficient	Not applicable.
Decomposition Temperature (Deg C)	Not available.
Freezing Point (Deg C)	Not applicable.
Softening Point (Deg C)	Not available.
Pour Point (Deg C)	Not applicable.
Initial Boiling Point (Deg C)	Not applicable.
Specific Gravity	1.18
Density when Molten	Not applicable.

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10. STABILITY AND REACTIVITY

Hazardous Reactions None known.

Hazardous Decomposition Product(s) n-butyl methacrylate

11. TOXICOLOGICAL INFORMATION

Inhalation Unlikely to be hazardous by inhalation. High concentrations of vapour from hot operations may be harmful, cause irritation of the respiratory tract and slight narcotic effects.

Skin Contact Unlikely to cause skin irritation.

Eye Contact Dust may cause irritation.

Ingestion Low oral toxicity.

Long Term Exposure This type of material has been in use for many years with no evidence of adverse effects.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

High tonnage material produced in partially contained systems. Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product is predicted to have low mobility in soil.

Persistence and Degradation

The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

Toxicity

The product is predicted to have low toxicity to aquatic organisms.

Effect on Effluent Treatment

The material is essentially insoluble in water and can therefore be separated from aqueous medium by sedimentation and filtration processes at an effluent treatment plant.

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13. DISPOSAL CONSIDERATIONS

'ELVACITE' waste is considered to be non-hazardous.
Clean scrap may be reprocessed.
Incineration may be used to recover energy value.
May be disposed of by landfill in accordance with local regulations.
Certain packages are returnable. Please consult your local office for further details. Ensure that all packaging is disposed of safely.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

15. REGULATORY INFORMATION

Not Classified as Dangerous for Supply/Use.

16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 93/112/EC.

Use : Coatings, adhesives, printing inks.

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GLOSSARY

OES Occupational Exposure Standard (UK HSE EH40)
MEL Maximum Exposure Limit (UK HSE EH40)
LTEL Long Term Exposure Limit
STEL Short Term Exposure Limit
TWA Time Weighted Average
Sk Can be absorbed through skin

(Revision: 01 - UK00)

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COM The company aims to control exposure in its workplace to this
limit

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