

MATERIAL SAFETY DATA SHEET

VERSION OF: 13th May 2008

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1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME

Iso Brush roofing top coat.

SUPPLIER OR COMPANY NAME

CRAY VALLEY LTD.

FULL ADDRESS

LAPORTE ROAD,
STALLINGBOROUGH,
NORTH EAST LINCOLNSHIRE,
DN37 8DR.

TELEPHONE

++ 44 (0) 1469 572464

FAX

++ 44 (0) 1469 571007

EMERGENCY TELEPHONE NUMBER

++ 44 (0) 1469 572464

2. COMPOSITION / INFORMATION ON INGREDIENTS

PREPARATION

CHEMICAL NAME OR GENERIC NAME

Gel Coat polyester for composites.

COMPONENTS OR IMPURITIES CONTRIBUTING TO HAZARDS

Name

Styrene

Symbols

Risk Phrases

Safety Phrases

Index NoCAS No

Xn

R10, R20, R36/R38 R40

S23

601-026-00-0

100-42-5

Typical Concentration Range

21% - 25%

3. HAZARDS IDENTIFICATION

SPECIFIC HAZARDS

Harmful (Xn)

Harmful by inhalation.

Irritating to eyes and skin.

Limited evidence of a carcinogenic effect.

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PHYSICAL AND CHEMICAL HAZARDS

Flammable

Name EC	No. CAS	No. Content	Symbol	R-phrases
styrene	202-851-5	100-42-5 ~20 %	Xn	R-10, 20, 36/38
antimony trioxide	215-175-0	1309-64-4 ~6 %	Xn	R-40
Stoddard solvent	232-489-3	8052-41-3 ~0.2 %	Xn ,N	R-10, 51/53, 66, 65
cobalt octoate	205-250-6	136-52-7 ~0.2 %	Xi	R-38, 43

SEE SECTION 16 FOR EXPLANATIONS TO R-PHRASES

4. FIRST AID MEASURES

INHALATION

Remove patient from affected area and make rest.

Give oxygen in case of breathing difficulty.

Call emergency medical care.

SKIN CONTACT

Wash thoroughly with soap and water. Remove contaminated clothing.

EYE CONTACT

Wash immediately (15 mins) with water, opening eyelids.

Call emergency medical care.

INGESTION

Do NOT induce vomiting, seek immediate medical advice.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA SUITABLE

Carbon dioxide. foam

NOT SUITABLE

Water.

PROTECTION OF FIRE FIGHTERS

Wear individual breathing apparatus

SPECIAL FIRE FIGHTING PROCEDURES :

Cool the container with sprayed water to avoid polymerisation. Eliminate all sources of combustion. Treat as hydrocarbon fire.

Limit spreading of extinguishing fluids.

HAZARDOUS COMBUSTION PRODUCTS :

By combustion, formation of toxic products : carbon, carbon

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective equipment.

ENVIRONMENTAL PRECAUTIONS

Do not discharge into sewers.

METHODS OF CLEANING UP

RECOVERY

Recover product by fixing with an absorbent.

Collect the product in a container pending future destruction

DISPOSAL

Burn in an approved installation

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7. HANDLING AND STORAGE

HANDLING

Do not store beyond shelf life

PREVENTION OF WORKER EXPOSURE

Efficient ventilation is required in the working area.
Durind spraying wear suitable respiratory equipment.

PREVENTION OF FIRE AND EXPLOSION

Close containers after use.

STORAGE

Stable under normal storage conditions.

STORAGE CONDITION SUITABLE

Keep container tightly closed.

STORAGE CONDITION TO AVOID

Keep container out of sunlight.
Keep away from heat.
Keep away from sources of ignition - NO SMOKING.

INCOMPATIBLE MATERIALS

Keep container away from oxidising materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS (MEL - TWA, MEL - STEL)

Product Name

Styrene

8 hours (MEL-TWA)

ppm mg/m³

100 420

Short Period (MEL-STEL) (According to UK)

ppm mg/m³

250 1050 (15 minutes)

antimony trioxide 1309-64-4 EH 40 (HSE)

0.5 mg/m³

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTIVE EQUIPMENT

Wear suitable respiratory protection. (AB)

In case of insufficient ventilation, wear suitable respiratory equipment.

HAND PROTECTION

Wear solvent-proof gloves

EYE PROTECTION

Wear a face-shield or chemical goggles. contact lenses should not be worn.



SKIN AND BODY PROTECTION

Wear impermeable apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

PHYSICAL STATE

Liquid

COLOUR

coloured - thixotropic liquid

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ODOUR

Aromatic

SPECIFIC TEMPERATURES

BOILING POINT OR RANGE

≥145°C

RISK OF FIRE OR EXPLOSION

FLASH POINT

31°C

AUTO IGNITION TEMPERATURE

490°C

EXPLOSIVE OR FLAMMABLE LIMITS IN AIR / %

Lower	Upper
1.1	6.1

VAPOUR PRESSURE

6.52 mb (652N/M²) at 20°C (styrene)

DENSITY

RELATIVE DENSITY (WATER)

1.10 - 1.70 (Typical Values)

SOLUBILITY

IN WATER

Insoluble in water.

IN ORGANIC SOLVENTS

Soluble in aromatic solvents.

Soluble in aliphatic solvents.

TYPICAL VISCOSITY

40-80 poise

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal storage conditions.

CONDITIONS TO AVOID

Light.

Heat.

HAZARDOUS REACTIONS WITH

Strong oxidising agents.

Peroxides.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

LD50

An oral LD50 in rats of 5g/kg has been reported for styrene.

LC50

Inhalation LC50 in rats - 12mg/litre/4hr (styrene)

SKIN IRRITATION

Irritating to the skin.

CARCINOGENICITY :

Carcinogen Category 3.

EYE IRRITATION

Irritating to the eyes.

SENSITISATION

May cause sensitisation by skin contact.

INHALATION

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Harmful by inhalation. Concentrations above 100ppm can cause impairment of the central nervous system

12. ECOLOGICAL INFORMATION

MOBILITY

Insoluble in water.

Emulsification with agitation.

If released to soil - viscosity and gelation limit seepage.

PERSISTENCE / DEGRADABILITY

Styrene: readily biodegradable.

BOD 20 (fresh water) = 87% of ThOD.

BOD 20 (salt water) = 80% of ThOD.

BIOACCUMULATION

Styrene: May cause tainting of fish and shellfish.

POSSIBLE ENVIRONMENTAL IMPACT / ECOTOXICITY

Styrene: Rated as slightly toxic to aquatic species.

96hr LC50 of 65mg/litre : bluegills

Toxicity threshold concentration (algae cell multiplication inhibition test) - 72mg/litre.

13. DISPOSAL CONSIDERATIONS

MEASURES FOR DISPOSAL

Incineration in approved installation.

NEUTRALISING OR DESTROYING PROCEDURE OF PRODUCT

Discharge prohibited into sewers and natural environments.

DESTROYING PROCEDURE OF CONTAMINATED PACKAGING

Cleaned packaging may be recycled.

14. TRANSPORT INFORMATION

INTERNATIONAL REGULATION



SEA (IMDG)

Proper shipping name	Resin solution
Page IMDG code	3379
UN No	1866
Class	3
Packaging Group	3
Label	070
EMS No	3 - 05
MFAG	310
Marine Pollutant (P or PP)	P
Remark	

AIR (ICAO / IATA)

UN / ID No	1866
Proper shipping name	Resin Solution
Class / Division	3
Subsidiary Risk	
Label	070
Packaging group	3

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Remark	
<u>LAND (RID/ADR, RTMDR/RTMDF)</u>	
Transport name	Resin Solution
Class	3
Item	
Label	070
Hazard identification No	
Substance identification No	
Remark	

15. REGULATORY INFORMATION

EEC REGULATIONS



EEC LABELLING

R Phrases

R10 Flammable
R20 Harmful by inhalation
R36/38 Irritating to eyes and skin
R-40 Limited evidence of a carcinogenic effect.

S Phrases

S-24/25 Avoid contact with skin and eyes.
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-41 In case of fire and/or explosion, do not breathe fumes.
S-51 Use only in well-ventilated areas.

Symbols

Xn Harmful
F Flammable

EU DIRECTIVES :

Directive 91/155/EEC amended by Directive 93/112/EEC and Directive 2001/58/EC : Safety data sheets.

Dangerous preparations : Directive 1999/45/EC amended by Directive 2001/60/EC - OJEC L226 - 22/08/2001.

Commission Directive 2004/73/EC of 29 April 2004 adapting technical progress for the 29th time Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (Official Journal L 216 - 16/06/2004).

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16. OTHER INFORMATION

REMARK

The information included in this Material Safety Data Sheet is accurate to the best of our knowledge at the time of compilation.

Further information pertaining to the use of this material may be obtained from the Sales Data Sheet, or alternatively from Cray Valley (Stallingborough) Technical Service Department. Data sheet conforms with EEC Directive 91/155/EEC.

EXPLANATIONS TO R-PHRASES IN SECTION 2 :

R-10 Flammable.

R-20 Harmful by inhalation.

R-36/38 Irritating to eyes and skin.

R-40 Limited evidence of a carcinogenic effect.

R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R-66 Repeated exposure may cause skin dryness or cracking.

R-65 Harmful: may cause lung damage if swallowed.

R-38 Irritating to skin.

R-43 May cause sensitization by skin contact.