

**PRODUCT AND COMPANY IDENTIFICATION**

Product Code	ICEG4A
Product Name	Icosit EG4 Part A
Product Description	2-component protective coating based on micaceous iron oxide/polyurethane combination.
Manufacturer/Supplier	Sika Limited Watchmead Welwyn Garden City Hertfordshire. AL7 1BQ tel. 01707 394444 Fax. 01707 329129

COMPOSITION/INFORMATION ON THE COMPONENTS**Preparation - Hazardous ingredients (Europe)**

Component		Concentration	Classification	Risk Phrases
1) Xylene	1330-20-7	10.00% - 25.00%	Xn	R10, R20/21, R38
2) Solvent Naptha (Petroleum),Light Aromatic.	64742-95-6	10.00% - 25.00%	Xn, N	R10, R37, R51/53, R65, R66, R67
3) Ethyl benzene	100-41-4	2.50% - 10.00%	F, Xn	R11, R20
4) 2-Methoxy-1-methylethyl acetate	108-65-6	1.00% - 2.50%#	Xi	R10, R36
5) Butyl acetate	123-86-4	1.00% - 2.50%	-	R10, R66, R67

HAZARD IDENTIFICATION

Main Hazards	Flammable. Harmful by inhalation. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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FIRST AID MEASURES

Eye Contact	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.
Skin Contact	Wipe off as much as possible with a clean dry cloth. Wash skin thoroughly with soap and water. Solvents should not be used to clean skin because they may increase the penetration of the material.
Ingestion	Do not induce vomiting. Wash out mouth with water. Obtain medical attention.
Inhalation	Remove from exposure. In cases of possible respiratory irritation or if feeling unwell in cases of prolonged exposure,obtain medical attention.

FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical or carbon dioxide.
Extinguishing Media - Not suitable	Do not use water jet.
Special Hazards of Product	Combustion will produce smoke,carbon dioxide and carbon monoxide.
Protective Equipment for Fire-Fighting	Wear full protective clothing and self-contained breathing apparatus.

**ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Wear appropriate protective clothing.
Eliminate all sources of ignition. Ventilate area to dispel any residual vapours.

Environmental Precautions and Clean-up Methods Spillages

Try to prevent the material from entering drains or water courses.

Contain and absorb using earth, sand or other inert material.
Transfer into suitable containers for recovery or disposal.

HANDLING AND STORAGE**Handling**

Exposure by inhalation or skin contact should be minimised by good Industrial Hygiene practices.

Use in well ventilated area.

Storage

Avoid contact with eyes, skin and clothing.

Storage area should be: cool. dry.

Storage temperature should be controlled to between 5 and 25 °C.

Store in the original container securely closed . Keep away from foodstuffs

EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits - GB**

1) Xylene

UK EH40: OES 100ppm (441mg/M3) 8hr. TWA

UK EH40: OES 150ppm (662mg/M3) 15 min STEL

2) Ethyl benzene

UK EH40: OES 100ppm (441mg/m3) 8h TWA.

UK EH40: OES 125ppm (552mg/m3) 15min STEL

3) 2-Methoxy-1-methylethyl acetate

UK EH40: OES 100ppm(375mg/M3) 8hr.TWA

UK EH40: OES 300ppm(1120mg/M3) 15min STEL

4) Butyl acetate

UK EH40: OES 150ppm (7724mg/m3) 8h TWA.

UK EH40: OES 200ppm (966mg/m3) 15min STEL

Engineering Control Measures

Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure.

Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

Respiratory Protection

Respiratory protection if there is a risk of exposure to high vapour concentrations.

If limits are exceeded use an approved respirator suitable for the purpose.

Hand Protection

Wear suitable impervious gloves.

Eye Protection

The insides of gloves must be kept scrupulously clean.

Chemical goggles.

PHYSICAL AND CHEMICAL PROPERTIES**Physical State**

Liquid.

Color

Various

Odor

Aromatic.

pH

Not applicable.

Flash Point °C

25

Solubility - Water

Immiscible.

Density (kg/m3)

1380 at 20 °C.

Viscosity (at 20°C)

Approx. 600 at 20 °C. (measured as mPa.s)

**STABILITY AND REACTIVITY**

Stability	Stable under normal conditions.
Conditions to avoid	Contains volatile solvent.
Hazardous Decomposition Products	Sources of ignition.
	Heating may produce: oxides of carbon. acrid smoke and irritating fumes.

TOXICOLOGICAL INFORMATION

Acute toxicity	Low order of acute toxicity.
Eye irritation	Liquid and vapour can cause irritation on contact and at high concentrations.
Skin irritation	Frequent or prolonged skin contact may cause some local short term skin irritation.

ECOLOGICAL INFORMATION

Mobility	The product is insoluble in water.
Persistence/degradability	The product is expected to be not readily biodegradable.
Ecotoxicity	This material is harmful to aquatic organisms.

DISPOSAL

Product Disposal	Dispose of as Special Waste.
Container Disposal	Arrange for disposal via a licensed waste contractor.
	Dispose of containers with care.
	Empty containers may contain hazardous residues.
	Empty packaging should be removed by a licensed waste contractor.

TRANSPORT INFORMATION

UN :	UN number	1263
UN :	Class	3
UN :	Packing Group	3
ADR/RID	Substance Identification Number	1263
ADR/RID	Proper shipping name	Paints - flash point between 21°C and 55°C.
ADR/RID	Class	3
ADR/RID	Item Number	31° c
ADR/RID	Hazard Identification Number	30
IMDG :	Proper shipping name	Paint.
IMDG :	Packing Group	3
IMDG :	Class	3.3
IMDG :	Ems Number	3-05
IATA :	Proper shipping name	Paint.
IATA :	Packing Group	3
IATA :	Class	3

**REGULATORY INFORMATION****Label Requirements**

Harmful

**Risk Phrases**

Flammable.
Harmful by inhalation.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

Do not breathe gas/fumes/vapour/spray.
In case of insufficient ventilation, wear suitable respiratory equipment.
Use only in well ventilated areas.

OTHER INFORMATION**First Issue Date**

14.11.1995

Revisions Highlighted

Main Hazards
Exposure Controls and Personal Protection
Regulatory information

Uses and Restrictions

Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken.

UK Legislation

Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions.
SI 1993/1746: Chemicals (Hazard Information and Packaging) Regulations, 1993.
SI 1999/437: The Control of Substances Hazardous to Health Regulations
SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.
SI No. 972/1996: The Special Waste Regulations 1996

UK Guidance Publications

EH40, Occupational Exposure Limits, HSE. Revised Annually.
General Approved Code of Practice to COSHH Regulations, HSE.
Guide for the Storage and Use of Highly Flammable Liquids - CIA HS(G) 53, Respiratory Protective Equipment - a Practical Guide for Users, HSE.

Footnote

The information contained in this SDS corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the Technical Data Sheet prior to use.

**PRODUCT AND COMPANY IDENTIFICATION**

Product Code	ICEG4B
Product Name	Icosit EG4 Part B
Product Description	2-component protective coating based on micaceous iron oxide/polyurethane combination.
Manufacturer/Supplier	Sika Limited Watchmead Welwyn Garden City Hertfordshire. AL7 1BQ tel. 01707 394444 Fax. 01707 329129

COMPOSITION/INFORMATION ON THE COMPONENTS**Preparation - Hazardous ingredients (Europe)**

Component		Concentration	Classification	Risk Phrases
1) Aliphatic Polyisocyanate	28182-81-2	50.00% - 10.00%	Xi	R43
2) Xylene	1330-20-7	10.00% - 25.00%	Xn	R10, R20/21, R38
3) Ethyl benzene	100-41-4	2.50% - 10.00%	F, Xn	R11, R20
4) 2-Methoxy-1-methylethyl acetate	108-65-6	10.00% 25.00%	Xi	R10, R36
5) Hexamethylen-1,6-diisocyanate	822-06-0	0.10% - 1.00%	T	R23, R36/37/38, R42/43

HAZARD IDENTIFICATION

Main Hazards	Flammable. Harmful by inhalation and in contact with skin. May cause sensitisation by skin contact.
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FIRST AID MEASURES

Eye Contact	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.
Skin Contact	Wipe off as much as possible with a clean dry cloth. Wash skin thoroughly with soap and water. Solvents should not be used to clean skin because they may increase the penetration of the material.
Ingestion	Do not induce vomiting. Wash out mouth with water. Obtain medical attention.
Inhalation	Remove from exposure. In cases of possible respiratory irritation or if feeling unwell in cases of prolonged exposure, obtain medical attention.

FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical or carbon dioxide.
Special Hazards of Product	Thermal decomposition or burning may release oxides of carbon, nitrogen and other toxic gases and vapours.
Protective Equipment for Fire-Fighting	Wear self contained breathing apparatus.

**ACCIDENTAL RELEASE MEASURES****Personal Precautions**

Wear appropriate protective clothing. Eliminate all sources of ignition. Ventilate area to dispel any residual vapours.

Environmental Precautions and Clean-up Methods Spillages

Try to prevent the material from entering drains or water courses.

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

HANDLING AND STORAGE**Handling**

Exposure by inhalation or skin contact should be minimised by good Industrial Hygiene practices.

Avoid inhaling vapour.

Avoid contact with eyes, skin and clothing.

Use in well ventilated area.

Storage

Keep container tightly closed when not in use.

Storage area should be: cool. dry. well ventilated. out of direct sunlight.

Store away from sources of heat or ignition.

Keep away from foodstuffs

Storage temperature should be controlled to between 5 and 25 °C.

EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational Exposure Limits - GB**

1) Xylene

UK EH40: OES 100ppm (441mg/M3) 8hr.TWA

UK EH40: OES 150ppm (662mg/M3) 15 min STEL

2) Ethyl benzene

UK EH40: OES 100ppm (441mg/m3) 8h TWA.

UK EH40: OES 125ppm (552mg/m3) 15min STEL

3) 2-Methoxy-1-methylethyl acetate

UK EH40: OES 50 ppm (274mg/ M3) 8hr. TWA

UK EH40: OES 150 ppm (822mg/ M3) 15 min STEL

4) Hexamethylen-1,6-diisocyanate

UK EH40: MEL 0.02mg/m3 8h TWA.

UK EH40: MEL 0.07mg/m3 15min STEL.

Engineering Control Measures

Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

Respiratory Protection

Adequate ventilation should be provided to maintain solvent concentrations in the workplace below exposure limits.

Respiratory protection if there is a risk of exposure to high vapour concentrations.

Hand Protection

Wear suitable impervious gloves.

Eye Protection

Chemical goggles if there is a risk of splashing.

PHYSICAL AND CHEMICAL PROPERTIES**Physical State**

Liquid.

Color

Light Yellow.

Odor

Characteristic.

pH

Not applicable.

Flash Point °C

Approx. 38

Solubility - Water

Insoluble. (reacts with water)

Density (kg/m3)

Approx. 1070 at 20 °C.

Viscosity (at 20°C)

Mobile liquid at ambient temperatures.

**STABILITY AND REACTIVITY**

Stability	Stable under normal conditions. Contains volatile solvent.
Conditions to avoid	Sources of ignition. Exposure to direct sunlight. High temperatures.
Hazardous Decomposition Products	Combustion will generate: oxides of carbon. oxides of nitrogen. toxic nitrogen compounds.

TOXICOLOGICAL INFORMATION

Acute toxicity	Low order of acute toxicity. Excessive exposure may produce anaesthetic or narcotic effects.
Eye irritation	Liquid and vapour can cause irritation on contact and at high concentrations.
Skin irritation	Frequent skin contact may cause irritation and defatting due to the solvent content.
Human Data	The principal hazard associated with isocyanates is allergic respiratory sensitisation. This may occur after either short periods of massive exposure or chronic exposure; effects may be considerably delayed. Hypersensitive persons may develop asthmatic symptoms and should refrain from working with the product.

ECOLOGICAL INFORMATION

Mobility	The product is volatile/gaseous and will partition to the air phase. The product is insoluble in water.
Persistence/degradability	The product is partially or slowly biodegradable.
Ecotoxicity	The product may be harmful to aquatic organisms.

DISPOSAL

Product Disposal	Dispose of as Special Waste. Arrange for disposal via a licensed waste contractor.
Container Disposal	Dispose of containers with care. Empty containers may contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.

TRANSPORT INFORMATION

UN :	UN number	1263
UN :	Class	3
UN :	Packing Group	3
ADR/RID	Substance Identification Number	1263
ADR/RID	Proper shipping name	Paints - flash point between 21°C and 55°C.
ADR/RID	Class	3
ADR/RID	Item Number	31°c
ADR/RID	Hazard Identification Number	30
IMDG :	Proper shipping name	Paint.
IMDG :	Packing Group	3
IMDG :	Class	3.3
IMDG :	Ems Number	3-05
IATA :	Proper shipping name	Paint.



IATA : Packing Group 3
IATA : Class 3.3

REGULATORY INFORMATION**Label Requirements**

Harmful

**Risk Phrases**

Flammable.
Harmful by inhalation and in contact with skin.
May cause sensitisation by skin contact.

Safety Phrases

Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin.
In case of insufficient ventilation, wear suitable respiratory equipment.
Use only in well ventilated areas.
Wear suitable gloves

Contains isocyanates. See information supplied by the manufacturer.

OTHER INFORMATION**First Issue Date**

14.11.1995

Revisions Highlighted

Composition/Information on the Components
Main Hazards
S Phrases

Uses and Restrictions

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Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions.
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SI 1972/917: Highly Flammable Liquids & LPG Regs.
SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.
SI 1999/437: The Control of Substances Hazardous to Health Regulations
SI No. 972/1996: The Special Waste Regulations 1996

UK Guidance Publications

EH40, Occupational Exposure Limits, HSE. Revised Annually.
General Approved Code of Practice to COSHH Regulations, HSE.
HS(G) 53, Respiratory Protective Equipment - a Practical Guide for Users, HSE.
Guide to Highly Flammable Liquids & LPG Regulations - H&SE.
Hydrocarbon Solvents - A Guide to Safe Handling (Solvent Industries Association).

Footnote

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