

MATERIAL SAFETY DATA SHEET

445 Printing Ink

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY UNDERTAKING

Product name : IR 445 / IC 445
Supplier : National Coding Technologies
5C, 46 Mileham Street
Windsor NSW 2756
Ph: 02 4577 3500
Fax: 02 4577 3506

2. COMPOSITION / INFORMATION ON INGREDIENTS

Information on hazardous ingredients *

Chemical Name	CAS No.	%	R Phrases	
NAME	CAS No.	EINECS Nr.	CLASSIFICATION	CONTENT (Mass)
Ethanol	64-17-5	200-578-6	F R-11	70-85%
Mono Propylene Glycol	57-55-6			<10%

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

3. HAZARDS IDENTIFICATION

Physical / chemical hazards : Highly flammable
Human health hazards : Irritating to eyes and respiratory system.

4. FIRST-AID MEASURES

Effects and symptoms

Inhalation : Remove from exposure, rest and keep warm and obtain medical attention

Ingestion : Wash out mouth with water may cause gastro irritation, nausea, vomiting and diarrhoea

Skin contact : Wash affected areas with soap and water. (skin absorption - slight). Obtain medical attention if irritations persists.

Eye contact : Irrigate immediately with copious quantities of water for several Minutes. Obtain medical attention if any irritations persists.

Aggravating conditions : May cause sensitisation by inhalation and skin contact.

First-aid measures : If you feel unwell, seek medical advice.

Protection of first-aiders : In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable gloves and eye/face protection.

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5 FIRE-FIGHTING MEASURES

Extinguishing media

Suitable : Carbon Dioxide CO₂ Alcohol resistant foam

Special exposure hazards : Vapour is heavier than air and can travel to source of ignition
And flash back

Protection of fire-fighters : In case of insufficient ventilation, wear suitable respiratory
equipment. Wear suitable gloves and eye/face protection.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Extinguish any naked flames or sources of ignition, wear
protective clothing. Avoid inhalation of vapours. When major
spills cause concentrations above 200 ppm use air respirator

Environmental precautions : Prevent contamination of ground and water drains. Inform
Authorities if this has occurred.

Decontaminations procedures : Soak up with inert absorbent. Remove to safe place
for Disposal. Can be flushed with water.

7 HANDLING AND STORAGE

Handling : Do not breathe vapour, keep away from skin and eyes. Keep
away from sources of ignition.
No Smoking. Ensure adequate ventilation Protect from
sunlight.

Storage : Store in tightly closed, clearly labelled containers in a cool,
ventilated area. Do not expose to temperatures exceeding 50°C.
Protect from sunlight.

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8 EXPOSURE CONTROL / PERSONAL PROTECTION

Hygiene measures
Respiratory : Approved respirator in excess of OEL
Hands : plastic or rubber gloves
Eyes : Safety glasses
Skin : Change any contaminated clothes.

Occupational Exposure Limits

Substance	8 hour TWA 10 min STEL source / Other information	
Ethanol	1000 ppm	EH40
Propane-1,2 diol particles	10 mg/m ³	

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Colour	: red mobile liquid
Odour	: alcoholic
Boiling point	: 78°C
Melting point	: <na
Solubility in water	: Slightly soluble in water
Flash point	: 12°C
PH working dilution	: N/A
Relative density	: 0.85

10 STABILITY AND REACTIVITY

Stability	: Stable under normal conditions
Conditions to avoid	: Keep away from heat, open flame, direct sunlight Avoid concentrations of vapours
Materials to avoid	: Avoid contact with heat flames and sparks
Hazardous decomposition Products	: Incompatible with oxidising agents

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11 TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the products components.

Health effects :

On Eyes :	Can cause burning of eye tissue.
On skin	Drying effect with continuous exposure – skin exposure slight
By inhalation :	Irritation, headache, dizziness and intoxication, vomiting.
By Ingestion :	Can cause headache, dizziness and intoxication, vomiting, Nausea
Chronic :	Liquid has a degreasing action on the skin and may produce a dry scaly and fissured dermatitis “tetrogenic” could cause birth defects in animals after high doses.
Other	Medical conditions generally aggravated by exposure : eye, skin, kidney, liver neurosystem and respiratory disorders.

12 ECOLOGICAL INFORMATION

Mobility :	Mobile liquid
Waste disposal :	Incinerate in a chemical incinerator equipped with an Afterburner and scrubber. Exercise care when igniting.
Hazardous polymerisation :	will not occur
Health risk =	1
Flammability =	3
Reactivity =	0

Scale : 4 = extreme ; 3 = High ; 2 = Moderate ; 1 = Slight ; 0 = Insignificant.

13 DISPOSAL CONSIDERATIONS

Unused product	: Dispose of through an Authorised Contractor to a Licensed site.
Used/contaminated product	: Product should be destroyed by incineration through Licensed site. In accordance to local authorities.
Packaging:	Should be disposed of as industrial waste with a competent Operator.

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14 TRANSPORT INFORMATION

UN / SI Number : UN 1210
IMO : 3.2
IATA / ICAO : 3
IMDG Code EmS F E S D

15 REGULATORY INFORMATION

Named Ingredients : Butanone, Ethanol.
SI Number : 1210
Packaging group : II
Hazard symbols : Highly flammable
Risk phrases : R11 Highly Flammable
Safety phrases : S16 Keep away from sources of ignition, no smoking
Approved codes of practice control of substances hazardous to health
Guidance notes : occupational exposure limits EH40 (revised annually)

16 OTHER INFORMATION

Disclaimer –

The data and advice given apply only when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any persons handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell you employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

Further copies of this Safety data Sheet may be obtained from Array Print Europe Ltd.