

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Product name **IRIS STAR**
Reference **IRS**

1.2 Use of the substance / preparation Professional use only

1.3 Company identification

Name Kustom Kolor Europe SA
Full address Keistraat 13
1820 Steenokkerzeel
Belgium

Tel 0032 2755 92 80 Fax 0032 2755 9281
kke@telenet.be www.chromirox.com

1.4 Emergency telephone

For urgent inquiries refer to your local emergency numbers

2. Composition / Information on ingredients

Contains:

Name	Concentration C	Classification
XYLENE	5 <= C < 10	R 10
Cas No 1330-20-7		Xn R 20/21
CE No 215-535-7		Xi R 38
Index No 601-022-00-9		
CARBOXYLATED	0 < C < 5	Xi R 38
ISOBUTYL ALCOHOL	0 < C < 5	R 10
Cas No 78-83-1		R 67
CE No 201-148-0		Xi R 37/38
Index No 603-108-00-1		Xi R 41
MESITYLENE	0 < C < 2,5	R 10
Cas No 108-67-8		Xi R 37
CE No 203-604-4		N R 51/53
Index No 601-025-00-5		
1,2,4-TRIMETHYLBENZENE	0 < C < 2,5	R 10
Cas No 95-63-6		Xn R 20
CE No 202-436-9		Xi R 36/37/38
Index No 601-043-00-3		N R 51/53
2-BUTOXYETHANOL	0 < C < 5	Xn R 20/21/22
Cas No 111-76-2		Xi R 36/38
CE No 203-905-0		
Index No 603-014-00-0		

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PROPAN-2-OL	0 < C < 5		R 67
Cas No 67-63-0		F	R 11
CE No 200-661-7		Xi	R 36
Index No 603-117-00-0			
ACETONE	0 < C < 5		R 66
Cas No 67-64-1			R 67
CE No 200-662-2		F	R 11
Index No 606-001-00-8		Xi	R 36
4-METHYLPENTAN-2-ONE	10 <= C < 20		R 66
Cas No 108-10-1		F	R 11
CE No 203-550-1		Xn	R 20
Index No 606-004-00-4		Xi	R 36/37
ETHYL ACETATE	5 <= C < 10		R 66
Cas No 141-78-6			R 67
CE No 205-500-4		F	R 11
Index No 607-022-00-5		Xi	R 36
N-BUTYL ACETATE	20 <= C < 30		R 10
Cas No 123-86-4			R 66
CE No 204-658-1			R 67
Index No 607-025-00-1			

The complete text of -R- phrases is specified in section 16.

3. Hazards Identification

3.1 Substance/Preparation Classification

This preparate is dangerous under 67/548/EEC and 1999/45/EC regulations and subsequent amendments. Therefore, this preparate requires a safety data sheet according to the 91/155/EC regulation and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: F-Xn
Phrases R: 11-20/21-36-66

3.2 Danger Identification

Because of its chemical-physical features, this product is graded as highly flammable (flash-point below 21 °C).
HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
IRRITATING TO EYES.
REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.

4. First aid measures

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.
SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.
INHALATION: Remove to open air. If breathing is irregular, seek medical advice.
INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Closed containers exposed to the heat of a fire may lead to pressure rise and explode. For information on environmental and health risks, protection of the respiratory airways, ventilation and individual protective measures, refer to the other sections of this sheet.

Extinguishing measures: CO₂, foam, chemical powder for flammable liquids. Water may not be effective to extinguish the fire, nevertheless it should be used to cool the containers exposed to flames and prevent fires and explosions. For leakage and spillage that have not caught fire, nebulized water may be used to disperse the flammable vapours and protect the people involved in stopping the leakage.

Equipment: wear equipment complete with helmet and face shield and protection of the neck, selfbreathing apparatus at pressure or demand, insulative jacket and trousers, with bands around the arms, legs and waist.

6. Accidental release measures

Exclude sources of ignition. Cover with inert absorbent material. Collect spillages by means of sparkproof equipment. Use water only to remove residuals, so as not to run the risk of entering the sewer.

Do not let the product dry. Contaminated clothes must be left to soak in water before washing. In order to choose safety measures and protection equipment, please see the other sections of this sheet.

Spillage in waters: remove the liquid from the surface with flameproof pumps or manual pumps or suitable absorbent material. Resort to sinking and/or dispersion of the product with suitable substances in open waters, if permitted by the law.

7. Handling and storage

Avoid the accumulation of electrostatic charges. Store the containers sealed and in a well ventilated place. Vapours may ignite with explosion, it is therefore necessary to avoid accumulation keeping the windows and doors open, ensuring cross ventilation.

Without adequate ventilation, the vapours may accumulate at the bottom and ignite at a distance, if triggered off, with the risk of flashback. Keep far away from sources of heat, sparks and naked flames. Do not smoke, use matches or lighters. Keep the containers earthed while decanting and wear antistatic boots.

Vigorous stirring and flow through the piping and equipment may cause the formation and accumulation of electrostatic charges due to the low conductivity of the product. In order to avoid the risk of fire outbreak and explosion never use compressed air during movement.

8. Exposure control / personal protection.

XYLENE

- TLV TWA	434 mg/m ³	ACGIH	
- TLV STEL	651 mg/m ³	ACGIH	
- OEL	221 mg/m ³	EU (8h)	skin

ISOBUTYL ALCOHOL

- TLV TWA	152 mg/m ³	ACGIH	
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MESITYLENE

- TLV TWA	125 mg/m ³	NIOSH	
- OEL	100 mg/m ³	EU (8h)	

1,2,4-TRIMETHYLBENZENE

- TLV TWA	123 mg/m ³	ACGIH	
- OEL	100 mg/m ³	EU (8h)	

2-BUTOXYETHANOL

- TLV TWA	97 mg/m ³	ACGIH	
- OEL	98 mg/m ³	EU (8h)	skin

PROPAN-2-OL

- TLV TWA	983 mg/m ³	ACGIH	
- TLV STEL	1230 mg/m ³	ACGIH	

ACETONE

Material Safety Data Sheet

IRIS STAR

- TLV TWA	1188mg/m3	ACGIH
- TLV STEL	1782mg/m3	ACGIH
- OEL	1210mg/m3	EU (8h)

4-METHYLPENTAN-2-ONE

- TLV TWA	205 mg/m3	ACGIH
- TLV STEL	307 mg/m3	ACGIH
- OEL	83 mg/m3	EU (8h)

ETHYL ACETATE

- TLV TWA	1440mg/m3	ACGIH
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N-BUTYL ACETATE

- TLV TWA	713 mg/m3	ACGIH
- TLV STEL	950 mg/m3	ACGIH

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

9. Physical and chemical properties

COLOUR	CLEAR
ODOUR	TYPICAL OF SOLVENT
PHYSICAL STATE	LIQUID WITH VISCOSITY
Solubility	SOLVED IN POLYETHER, ALCOLS, CHETON, AROMATIC HIDROCARBONS
Viscosity	N.A.
Vapour density	N.A.
Evaporation speed	N.A.
Comburent properties	N.A.
Partition coefficient: n-octanol/water	N.A.
pH	N.A.
Boiling point	N.A.
Flash point	< 21 °C
Explosive properties	N.A.
Vapour pressure	N.A.
Specific gravity	N.A.

10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbonoxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

The xylene present is stable but may give violent reactions if placed in contact with strong oxidants such as nitric acid, sulfuric acid, perchlorates and similar agents. It is biodegradable in water and decomposes in the sunlight (photodegradable).

2-Butoxyethanol may form explosive peroxides; it reacts with light metals, such as aluminium (ref. H.C.S.).

Nitrocellulose: avoid sunlight, heat, shocks and frictions. Keep away from acids, bases and strong oxidizing agents.

Acetone reacts violently with chloroform in basic ambient with the risk of fires and explosions (ref. Handling chemicals safely).

Like MEK, methylisobutyl ketone reacts violently with light metals such as, aluminium and strong oxidizing agents; it attacks different types of plastic materials (ref. H.C.S.)

Ethyl acetate may decompose when heated with water and reacts with strong oxidizing agents (see INRS NIS FORM N18, ED. 1991).

Nbutyl acetate easily decomposes with water especially when heated.

11. Toxicological information

Acute effects: inhalation or cutaneous absorption of this product are harmful. This product may irritate mucosas, the upper respiratory tract, and eyes. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness.

In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema. Upon contact with skin, this product may irritate it, causing an increase in skin temperature, swelling and itchiness. Ingestion of even small amounts of this product may cause health problems (stomach pain, nausea, sickness, diarrhoea).

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

N-butyl acetate: the vapours are particularly irritating to the eyes and respiratory airways and at high concentrations they are also narcotic. Frequent contact with the skin may cause dermatitis (INR nr. 31, 1987).

12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid litter. Do not contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

Please take all the proper measures to reduce harmful effects on aquifers.

13. Disposal consideration

Consider the possibility of burning the product in a suitable incenerator. Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

14. Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

ADR:	3	UN: 1263
Packing Group:	II	
Label:	3	
Nr. Kemler:	33	
Proper Shipping Name:	Paint or paint related material	
Special Provision:	640D	

Carriage by sea (shipping):

IMO class:	3	UN: 1263
Packing Group:	II	
Label:	3	
EMS:	F-E, S-E	
Proper Shipping Name:	Paint or paint related material	

Transport by air:

IATA:	3	UN: 1263	
Packing Group:	II		
Label:	3		
Cargo:			
Packaging instructions:	307	Maximum quantity:	60 L
Pass.:			
Packaging instructions:	305	Maximum quantity:	5 L
Special Instructions:	A72		

15. Regulatory information

Xn



HARMFUL

F



HIGHLY FLAMMABLE

- R11 HIGHLY FLAMMABLE.
- R20/21 HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
- R36 IRRITATING TO EYES.
- R66 REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
- S 9 KEEP CONTAINER IN A WELL-VENTILATED PLACE.
- S13 KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
- S23 DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY (APPROPRIATE WORDING TO BE SPECIFIED BY THE MANUFACTURER).
- S36/37 WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.
- S51 USE ONLY IN WELL-VENTILATED AREAS.

Danger labelling under regulations 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must undergo health checks according to regulation 98/24/EC.

16. Other information

Text of -R- phrases quoted in section 2 of the sheet.

- R 10 FLAMMABLE.
- R 11 HIGHLY FLAMMABLE.
- R 20 HARMFUL BY INHALATION.
- R 20/21 HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
- R 20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
- R 36 IRRITATING TO EYES.
- R 36/37 IRRITATING TO EYES AND RESPIRATORY SYSTEM.
- R 36/37/38 IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
- R 36/38 IRRITATING TO EYES AND SKIN.
- R 37 IRRITATING TO RESPIRATORY SYSTEM.
- R 37/38 IRRITATING TO RESPIRATORY SYSTEM AND SKIN.
- R 38 IRRITATING TO SKIN.
- R 41 RISK OF SERIOUS DAMAGE TO EYES.
- 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 67 VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

GENERAL BIBLIOGRAPHY

1. Regulation 1999/45/CE and following amendments;
2. Regulation 67/548/CEE and following amendments and adjustments (technical adjustment XXVIII);
3. Regulation 91/155/CEE and following amendments;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.