

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: CRACK DETECTOR RED DYE NO.2

Article number: IS92

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC25: Metal working fluids.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: TYGRIS Industrial
Unit 31
Kyle Road Industrial Estate
Irvine
Ayshire
KA12 8LE
Tel +44 (0) 1294 311 066
Fax +44 (0) 1294 277 115
Email technical@tygrisindustrial.com

Further information obtainable from: Technical Department

1.4 Emergency telephone number: Tel +44 (0) 1294 311 066

2. Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Irrit. 2: H315; Eye Irrit. 2: H319; Flam. Aerosol 1: H222; -: H229

Most important adverse effects: Extremely flammable aerosol. Pressurised container: May burst if heated. Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

Hazard statements: H222: Extremely flammable aerosol.
H229: Pressurised container: May burst if heated.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

Hazard pictograms: GHS02: Flame
GHS07: Exclamation mark



Signal word: Danger

Precautionary statements: P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P410+412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

3. Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

XYLENE - REACH registered number(s): 01-2119484661-33-0004

EINECS	CAS	PBT / WEL	CLP Classification	Percent
215-535-7	1330-20-7	-	Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315	30-50%

ACETONE - REACH registered number(s): 01-2119471330-XXXX

200-662-2	67-64-1	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	1-10%
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PROPAN-2-OL

200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	1-10%
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2-BUTOXYETHANOL

203-905-0	111-76-2	-	Acute Tox. 4: H332; Acute Tox. 4: H312; Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	1-10%
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PROPAN-1-OL

200-746-9	71-23-8	-	Flam. Liq. 2: H225; Eye Dam. 1: H318; STOT SE 3: H336	1-10%
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2-ETHYLHEXANOIC ACID

205-743-6	149-57-5	-	Repr. 2: H361d	<1%
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4. First aid measures

4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Wash out mouth with water. Consult a doctor.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor. Move the exposed person to fresh air.

4.2. Most important symptoms and effects, both acute and delayed

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be irritation and redness. The eyes may water profusely.
- Ingestion:** There may be soreness and redness of the mouth and throat.
- Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

- Immediate / special treatment:** Eye bathing equipment should be available on the premises.

5. Firefighting measures

5.1 Extinguishing media

- Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

- Exposure hazards:** In combustion emits toxic fumes.

5.3. Advice for fire-fighters

- Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

7. Handling and storage

7.1 Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

8. Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

XYLENE

Workplace exposure limits:

Respirable dust:

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	220mg/m ³	441mg/m ³

ACETONE

UK	500ppm 1210mg/m ³	1500ppm 3620mg/m ³	-	-
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PROPAN-2-OL

UK	999 mg/m ³	1250 mg/m ³	-	-
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2-BUTOXYETHANOL

UK	25 ppm	50 ppm	-	-
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PROPAN-1-OL

UK	500 mg/m ³	625 mg/m ³	-	-
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DNEL/PNEC Values
Hazardous ingredients:
XYLENE

Type	Exposure	Value	Population	Effect
DNEL	Exposure	289mg/m ³	Workers	Systemic
DNEL	Inhalation	180mg/m ³	Workers	Systemic
DNEL	Dermal	77mg/m ³	Workers	Systemic
DNEL	Inhalation	174mg/m ³	Consumers	Systemic
DNEL	Dermal	108mg/kg/day	Consumers	Systemic
DNEL	Inhalation	14.8mg/m ³	Consumers	Systemic

ACETONE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	186mg/kg/day	Workers	Systemic
DNEL	Inhalation	2420mg/m ³	Workers	Local
DNEL	Inhalation	1210mg/m ³	Workers	Systemic
DNEL	Oral	62mg/kg/day	Consumers	Systemic
DNEL	Dermal	62mg/m ³	Consumers	Systemic
DNEL	Inhalation	200mg/m ³	Consumers	Systemic
PNEC	Fresh water	10.6mg/l	-	-
PNEC	Marine water	1.06mg/l	-	-
PNEC	Fresh water	Intermittent release	-	-
PNEC	Fresh water sediments	30.4 mg/kg	-	-
PNEC	Marine sediments	3.04mg/kg	-	-
PNEC	Soil (agricultural)	29.5mg/kg	-	-
PNEC	Microorganisms in sewage treatment	100mg/l	-	-

8.2. Exposure controls

- Engineering measures:** Ensure there is sufficient ventilation of the area.
- Respiratory equipment:** Self-contained breathing apparatus must be available in case of emergency.
- Hand protection:** Protective gloves. Chemically resistant gloves.
- Eye protection:** Safety glasses. Ensure eye bath is to hand.
- Skin protection:** Protective clothing.
- Environmental:** Not applicable.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Aerosol
Colour:	Red
Odour:	Characteristic odour
Flash point°C:	-60
Relative density:	0.86

9.2. Other information

Other information:	No data available.
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10. Stability and reactivity

10.1. Reactivity

Reactivity:	Stable under recommended transport or storage conditions.
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10.2. Chemical stability

Chemical stability:	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
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10.4. Conditions to avoid

Conditions to avoid:	Heat.
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10.5. Incompatible materials

Materials to avoid:	Strong oxidising agents. Strong acids.
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10.6. Hazardous decomposition products

Haz. decomp. products:	In combustion emits toxic fumes.
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11. Toxicological information
11.1. Information on toxicological effects
Hazardous ingredients:
XYLENE

DERMAL	RBT	LD50	>1700	mg/kg
GASES	MUS	1H LC50	5000	ppmV
ORAL	RAT	LD50	4300	mg/kg

ACETONE

DERMAL	RAT	LD50	>7400	mg/kg
DERMAL	RBT	LD50	2000	mg/kg
ORAL	RAT	LD50	5800	mg/kg
VAPOURS	RAT	4H LC50	76000	mg/l

PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

2-BUTOXYETHANOL

IVN	RAT	LD50	307	mg/kg
ORL	MUS	LD50	1230	mg/kg
ORL	RAT	LD50	470	mg/kg

PROPAN-1-OL

IVN	RAT	LD50	590	mg/kg
ORL	MUS	LD50	6800	mg/kg
ORL	RAT	LD50	1870	mg/kg

2-ETHYLHEXANOIC ACID

ORL	RAT	LD50	3	gm/kg
SKN	RBT	LD50	1260	µl/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: Not applicable.

12. Ecological information

12.1. Toxicity

Hazardous ingredients:

XYLENE

Daphnia magna	48H EC50	<10	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	41	mg/l

ACETONE

ALGAE	192H EC10	530	mg/l
Activated Sludge	30m EC10	1000	mg/l
DAPHNIA	48H EC50	8800	mg/l
Daphnia magna	192H EC10	2212	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	5540	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

13. Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company. Dispose of contents and container according to national regulations.

Recovery operations: Not applicable.

Disposal of packaging: Not applicable.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport information

14.1. UN number

UN number: UN1950

14.2. UN proper shipping name

Shipping name: AEROSOLS

14.3. Transport hazard class(es)

Transport class: 2

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D

Transport category: 2

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2. Chemical safety assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16. Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Phrases used in s.2 and s.3: EUH066: Repeated exposure may cause skin dryness or cracking.
H222: Extremely flammable aerosol.
H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H229: Pressurised container: May burst if heated.
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H336: May cause drowsiness or dizziness.
H361d: Suspected of damaging the unborn child.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.