

SAFETY DATA SHEET

IRS2129-1 (PART B)

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Compilation date: 15/07/2014

Revision date: 30/06/2016

Revision No: 2

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: IRS2129-1 (PART B)

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

1.3. Details of the supplier of the safety data sheet

Company name: INTERTRONICS
17 Station Field Industrial Estate
Kidlington
Oxfordshire
OX5 1JD
England
Tel: +44(0) 1865 842842
Fax: +44(0) 1865 842172
Email: msds@intertronics.co.uk

1.4. Emergency telephone number

Emergency tel: +44(0) 1865 842842
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1B: H314; Aquatic Chronic 2: H411; Acute Tox. 4: H332; Skin Sens. 1A: H317

Most important adverse effects: Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if inhaled. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.
H411: Toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS05: Corrosion
GHS07: Exclamation mark
GHS09: Environmental

[cont...]

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Signal words: Danger

Precautionary statements: P260: Do not breathe mist.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a doctor.

P273: Avoid release to the environment.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

AMINE-TERMINATED POLY(ACRYLONITRILE-CO-BUTADIENE)

EINECS	CAS	PBT / WEL	CLP Classification	Percent
614-706-7	68683-29-4	-	Skin Irrit. 2: H315; Skin Sens. 1: H317	50-70%

N-(BETA-AMINOETHYL)PIPERAZINE - REACH registered number(s): 01-2119471486-30-XXXX

205-411-0	140-31-8	-	Skin Corr. 1B: H314; Acute Tox. 3: H311; Acute Tox. 4: H302; Skin Sens. 1: H317; Aquatic Chronic 3: H412	10-30%
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STYRENATED PHENOL

262-975-0	61788-44-1	-	Skin Irrit. 2: H315; Skin Sens. 1A: H317; Aquatic Chronic 1: H410	1-10%
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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL - REACH registered number(s): 01-2119560597-27-XXXX

202-013-9	90-72-2	-	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315	1-10%
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DIETHYLENETRIAMINE - REACH registered number(s): 01-2119473793-27-XXXX

203-865-4	111-40-0	-	Skin Corr. 1B: H314; Acute Tox. 4: H302+312; Acute Tox. 2: H330; Skin Sens. 1: H317; STOT SE 3: H335	1-10%
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TRIETHYLENETETRAMINE - REACH registered number(s): 01-2119487919-13-XXXX

203-950-6	112-24-3	-	Skin Corr. 1B: H314; Acute Tox. 4: H302+312; Skin Sens. 1: H317; Aquatic Chronic 3: H412	1-10%
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Section 4: First aid measures

4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

- Skin contact:** Severe burns may occur. Blistering may occur. Progressive ulceration will occur if treatment is not immediate. May cause sensitisation in susceptible individuals.
- Eye contact:** Corneal burns may occur. May cause permanent damage.
- Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

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

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5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. 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.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

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: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. 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.

Section 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)

Section 8: Exposure controls/personal protection

8.1. Control parameters

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Hazardous ingredients:

DIETHYLENETRIAMINE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	4.3 mg/m ³	-	-	-

DNEL/PNEC Values

Hazardous ingredients:

N-(BETA-AMINOETHYL)PIPERAZINE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	3.6 mg/m ³	Workers	Systemic
DNEL	Inhalation	21.4 mg/m ³	Workers	Systemic
DNEL	Dermal (repeated dose)	3.3 mg/kg	Workers	Systemic
DNEL	Dermal	20 mg/kg	Workers	Systemic
DNEL	Dermal	6 ug/cm ²	Workers	Local
PNEC	Fresh water	58 ug/L	-	-
PNEC	Marine water	6 ug/L	-	-
PNEC	Microorganisms in sewage treatment	250 mg/L	-	-
PNEC	Fresh water sediments	215 mg/kg	-	-
PNEC	Marine sediments	21.5 mg/kg	-	-
PNEC	Soil (agricultural)	42.9 mg/kg	-	-

STYRENATED PHENOL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	4.11 mg/m ³	Workers	Systemic
DNEL	Dermal	2.92 mg/kg	Workers	Systemic
PNEC	Fresh water	11.5 ug/L	-	-
PNEC	Marine water	1.15 ug/L	-	-
PNEC	Microorganisms in sewage treatment	10 mg/L	-	-
PNEC	Fresh water sediments	1.564 mg/kg	-	-
PNEC	Marine sediments	156.4 ug/kg	-	-
PNEC	Soil (agricultural)	305.2 ug/kg	-	-

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Type	Exposure	Value	Population	Effect
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PNEC	Fresh water	84 ug/L	-	-
PNEC	Marine water	8.4 ug/L	-	-
PNEC	Microorganisms in sewage treatment	200 ug/L	-	-

DIETHYLENETRIAMINE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	15.4 mg/m3	Workers	Systemic
DNEL	Inhalation	92.1 mg/m3	Workers	Systemic
DNEL	Inhalation	0.87 mg/m3	Workers	Local
DNEL	Inhalation	2.6 mg/m3	Workers	Local
DNEL	Dermal	11.4 mg/kg	Workers	Systemic
DNEL	Dermal	1.1 mg/cm2	Workers	Local
PNEC	Fresh water	560 ug/L	-	-
PNEC	Marine water	56 ug/L	-	-
PNEC	Microorganisms in sewage treatment	6 mg/L	-	-
PNEC	Fresh water sediments	1072 mg/kg	-	-
PNEC	Marine sediments	107.2 mg/kg	-	-
PNEC	Soil (agricultural)	7.97 mg/kg	-	-

TRIETHYLENETETRAMINE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	1 mg/m3	Workers	Systemic
DNEL	Inhalation	5380 mg/m3	Workers	Systemic
DNEL	Dermal	28 ug/kg	Workers	Local
DNEL	Dermal	57 ug/kg	Workers	Systemic
PNEC	Fresh water	190 ug/L	-	-
PNEC	Marine water	38 ug/L	-	-
PNEC	Microorganisms in sewage treatment	4.25 mg/L	-	-
PNEC	Fresh water sediments	95.9 mg/kg	-	-
PNEC	Marine sediments	19.2 mg/kg	-	-
PNEC	Soil (agricultural)	19.1 mg/kg	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid
Colour: Pale yellow
Odour: Characteristic odour
Viscosity: Viscous
Flash point°C: 245
pH: 7
Relative density: 1.17

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

AMINE-TERMINATED POLY(ACRYLONITRILE-CO-BUTADIENE)

DERMAL	RBT	LD50	>3000	mg/kg
ORAL	RAT	LD50	>15400	mg/kg

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N-(BETA-AMINOETHYL)PIPERAZINE

DERMAL	RBT	LD50	886	mg/kg
ORAL	RAT	LD50	1000	mg/kg

STYRENATED PHENOL

ORAL	RAT	LD50	>2000	mg/kg
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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

DERMAL	RAT	LD50	1280	mg/kg
ORAL	RAT	LD50	1000	mg/kg
VAPOURS	RAT	4H LC50	>0.5	mg/kg

DIETHYLENETRIAMINE

DERMAL	RBT	LD50	1045	mg/kg
DUST/MIST	RAT	4H LC50	0.07	mg/l
ORAL	RAT	LD50	1553	mg/kg

TRIETHYLENETETRAMINE

DERMAL	RBT	LD50	1465	mg/kg
ORAL	RAT	LD50	>300	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Severe burns may occur. Blistering may occur. Progressive ulceration will occur if treatment is not immediate. May cause sensitisation in susceptible individuals.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Section 12: Ecological information

12.1. Toxicity

[cont...]

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Hazardous ingredients:

AMINE-TERMINATED POLY(ACRYLONITRILE-CO-BUTADIENE)

ALGAE	72H ErC50	>1000	mg/l
DAPHNIA	48H EC50	>1000	mg/l

N-(BETA-AMINOETHYL)PIPERAZINE

Daphnia magna	48H EC50	58	mg/l
FISH	96H LC50	2190	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	>1000	mg/l

STYRENATED PHENOL

ALGAE	72H ErC50	>10	mg/l
DAPHNIA	48H EC50	4.6	mg/l
FISH	96H LC50	5.6	mg/l

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Scenedesmus Subspicatus	72H ErC50	66	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	175	mg/l

DIETHYLENETRIAMINE

Daphnia magna	48H EC50	16	mg/l
FISH	96H LC50	430	µg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	1164	mg/l

TRIETHYLENETETRAMINE

ALGAE	72H ErC50	>10	mg/l
Daphnia magna	48H EC50	33.9	mg/l
FISH	96H LC50	>100	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

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

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12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Arrange for collection by specialised disposal company.

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

Section 14: Transport information

14.1. UN number

UN number: UN2735

14.2. UN proper shipping name

Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.
(2-PIPERAZIN-1-YLETHYLAMINE; DIETHYLENETRIAMINE; TRIETHYLENETETRAMINE)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user

Tunnel code: E

Transport category: 2

Section 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.

[cont...]

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Section 16: Other information

Other information

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

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H302+312: Harmful if swallowed or in contact with skin.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H330: Fatal if inhaled.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

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.