

SAFETY DATA SHEET

(REACH Regulation (EC) n° 1907/2006 - n° 453/2010)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

- Product name: IRONLAK (AEROSOL)

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

- Spray paint.

1.3. Details of the supplier of the safety data sheet

- Registered company name: AVT Paints.
- Address: P.O Box 977, Spring Hill, QLD 4004 AUSTRALIA.
- Telephone: 1300 789 876 (+617 3823 5449)
- Email : ironlak@avtpaints.com
- www.ironlak.com

1.4. Emergency telephone number : 0870 600 6266 (Outside the UK: +44 870 600 6266)

- Association/Organisation: National Poisons Information Service.
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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

- Flammable aerosol, Category 1.
- Repeated exposure may cause skin dryness or cracking.
- Eye irritation, Category 2.
- Specific target organ toxicity (single exposure), Category 3.
- This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

- Extremely flammable.
- Repeated exposure may cause skin dryness or cracking.
- Possibility of irritation to the eyes.
- Vapors may cause drowsiness and dizziness.
- This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

- Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

- Hazard pictograms:



GHS07

GHS02

- Signal Word: DANGER

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- Hazard statements:

H222	Extremely flammable aerosol.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

- Precautionary statements - Prevention:

P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

- Precautionary statements - Response:

P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.

- Precautionary statements - Storage:

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

- Precautionary statements - Disposal:

P501	Dispose of contents/container at a disposal facility in accordance with local regulations.
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In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

- Hazard symbols:

**Irritant****Extremely flammable**

- Risk phrase:

R 36	Irritating to eyes.
R 12	Extremely flammable.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.

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- Safety phrase:

S 16	Keep away from sources of ignition - No smoking.
S 23	Do not breathe spray. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.
S 24	Avoid contact with skin.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 60	This material and its container must be disposed of as hazardous waste.
S 62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

2.3. Other hazards

- No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances**

- No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

3.2. Mixtures**Composition :**

Identification	Name	Classification	%
INDEX: 603-019-00-8 CAS: 115-10-6 EC: 204-065-8	DIMETHYL ETHER	GHS02, GHS04, Dgr F+ H:220 R: 12	10 <= x % < 25
INDEX: 649-356-00-4 CAS: 64742-95-6 EC: 265-199-0	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.	GHS08, Dgr Xn H:304 R: 65 NOTA: H P 4	10 <= x % < 25
INDEX: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2	ACETONE	GHS02, GHS07, Dgr Xi,F H:225-319-336 EUH:066 R: 11-36-66-67	10 <= x % < 25
INDEX: 607-022-00-5 CAS: 141-78-6 EC: 205-500-4	ETHYL ACETATE	GHS02, GHS07, Dgr Xi,F H:225-319-336 EUH:066 R: 11-36-66-67	10 <= x % < 25
INDEX: 607-025-00-1 CAS: 123-86-4 EC: 204-658-1	N-BUTYL ACETATE	GHS02, GHS07, Wng H:226-336 EUH:066 R: 10-66-67	10 <= x % < 25

INDEX: 603-014-00-0 CAS: 111-76-2 EC: 203-905-0	2-BUTOXYETHANOL	GHS07, Wng Xn H:332-312-302-319-315 R: 20/21/22-36/38	2.5 <= x % < 10
INDEX: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7	PROPAN-2-OL	GHS02, GHS07, Dgr Xi,F H:225-319-336 R: 11-36-67	2.5 <= x % < 10

SECTION 4: FIRST AID MEASURES

- As a general rule, in case of doubt or if symptoms persist, always call a doctor.
- NEVER induce swallowing in an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:

- In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.
- If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.
- If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of splashes or contact with eyes:

- Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.
- If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

- Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.
- Watch out for any remaining product between skin and clothing, watches, shoes, etc.
- If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital

In the event of swallowing:

- In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
- Keep the person exposed at rest. Do not force vomiting.
- Seek medical attention, showing the label.
- If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

- No data available.

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

- No data available.

SECTION 5: FIREFIGHTING MEASURES

- Flammable.
- Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

- In the event of fire, use specifically suitable extinguishing agents.
- Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

- In the event of a fire, use:
 - sprayed water or water mist
 - water with AFFF (Aqueous Film Forming Foam) additive
 - halon
- Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

- In the event of a fire, do not use:
 - water
 - water jet

5.2. Special hazards arising from the substance or mixture

- A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
- Do not breathe in smoke.
- In the event of a fire, the following may be formed:
 - carbon monoxide (CO)
 - carbon dioxide (CO₂)

5.3. Advice for firefighters

- Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Consult the safety measures listed under headings 7 and 8.

For non fire-fighters

- Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.
- Avoid inhaling the vapors.
- Avoid any contact with the skin and eyes.
- If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For fire-fighters

- Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

- Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
- Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

- Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

- No data available.
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SECTION 7: HANDLING AND STORAGE

- Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

- Always wash hands after handling.
- Remove and wash contaminated clothing before re-using.
- Ensure that there is adequate ventilation, especially in confined areas.

Fire prevention:

- Handle in well-ventilated areas.
- Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.
- Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.
- Do not spray on a naked flame or any incandescent material.
- Do not pierce or burn, even after use.
- Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.
- Keep packages tightly closed and away from sources of heat, sparks and naked flames.

- Do not use tools which may produce sparks. Do not smoke.
- Prevent access by unauthorised personnel.

Recommended equipment and procedures:

- For personal protection, see section 8.
- Observe precautions stated on label and also industrial safety regulations
- Never pour water into this mixture.
- Do not breathe in aerosols.
- Avoid inhaling vapors.
- Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.
- Provide vapor extraction at the emission source and also general ventilation of the premises
- Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions
- In all cases, recover emissions at source
- Avoid skin and eye contact with this mixture.
- Packages which have been opened must be reclosed carefully and stored in an upright position

Prohibited equipment and procedures:

- No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

- No data available.

Storage

- Keep the container tightly closed in a dry, well-ventilated place
- Keep away from all sources of ignition - do not smoke.
- Keep well away from all sources of ignition, heat and direct sunlight
- The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.
- Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Packaging

- Always keep in packaging made of an identical material to the original

7.3. Specific end use(s)

- No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

- - European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Notes:
115-10-6	1920	1000	-	-	-
67-64-1	1210	500	-	-	-
111-76-2	98	20	246	50	Peau

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- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
67-64-1	500 ppm	750 ppm	-	-	-
141-78-6	400 ppm	-	-	-	-
123-86-4	150 ppm	200 ppm	-	-	-
111-76-2	20 ppm	-	-	-	-
67-63-0	200 ppm	400 ppm	-	-	-

- Germany - AGW (BAuA - TRGS 900, 21/06/2010):

CAS	VME:	VME:	Excess	Notes
115-10-6	1000 ml/m3	1900 mg/m3	8(II)	DFG
67-64-1	500 ml/m3	1200 mg/m3	2(I)	DFG
141-78-6	400 ml/m3	1500 mg/m3	2(I)	DFG, Y
111-76-2	20 ml/m3	98 mg/m3	4(II)	DFG, H, Y
67-63-0	200 ml/m3	500 mg/m3	2(II)	DFG, Y

- Australia (NOHSC: 3008, 1995):

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
115-10-6	400 ppm	500 ppm	-	-	-
67-64-1	500 ppm	1000 ppm	-	-	-
141-78-6	200 ppm	-	-	-	-
123-86-4	150 ppm	200 ppm	-	-	-
111-76-2	20 ppm	50 ppm	-	-	-
67-63-0	400 ppm	500 ppm	-	-	-

- France (INRS - ED984:2007 and French Order of 30/06/2004):

CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP No.:
115-10-6	1000	1920	-	-	-	-
67-64-1	500	1210	1000	2420	-	84
141-78-6	400	1400	-	-	-	84
123-86-4	150	710	200	940	-	84
111-76-2	2	9.8	30	147.6	*	84
67-63-0	-	-	400	980	-	84

- Switzerland (SUVA 2009):

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Temps:	RSB:
115-10-6	1910	1000	-	-	-	-
67-64-1	1200	500	2400	1000	4x15	B
141-78-6	1400	400	2800	800	4x15	-
123-86-4	480	100	960	200	4x15	-
111-76-2	49	10	98	20	4x15	RB
67-63-0	500	200	1000	400	4x15	B

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

- Use personal protective equipment that is clean and has been properly maintained.
- Store personal protective equipment in a clean place, away from the work area.
- Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

- Avoid contact with eyes.
- Use eye protectors designed to protect against liquid splashes
- Before handling, wear safety goggles with protective sides accordance with standard EN166.
- In the event of high danger, protect the face with a face shield.
- Prescription glasses are not considered as protection.
- Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.
- Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

- Protective creams may be used for exposed skin, but they should not be applied after contact with the product.
- Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
- Gloves must be selected according to the application and duration of use at the workstation.
- Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.
- Type of gloves recommended :
 - PVA (Polyvinyl alcohol)
- Recommended properties:
 - Impervious gloves in accordance with standard EN374

- Body protection

- Avoid skin contact.
- Wear suitable protective clothing
- Suitable type of protective clothing:
 - In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.
 - In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.
- Work clothing worn by personnel shall be laundered regularly.
- After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

- Avoid breathing vapours
- If the ventilation is insufficient, wear appropriate breathing apparatus.
- When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.
- Type of FFP mask:
 - Wear a disposable half-mask aerosol filter in accordance with standard EN149.
- Category:
 - FFP1
- Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387:
 - A1 (Brown)
- Particle filter according to standard EN143:
 - P1 (White)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****General information:**

Physical state:	fluid liquid
spray	

Important health, safety and environmental information:

PH of the substance or preparation:	not relevant.
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- The pH is impossible to measure or its value is not relevant.

Flash point interval:	not relevant.
Vapour pressure:	Below 110 kPa (1.10 bar).
Density:	< 1
Water solubility:	Insoluble.

9.2. Other information

- No data available.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

- No data available.

10.2. Chemical stability

- This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

- When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

- Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.
- Avoid:
 - heating
 - heat
 - humidity
- Protect from moisture. Reaction with water can cause an exothermic reaction.

10.5. Incompatible materials

- Keep away from:
 - oxidising agents

10.6. Hazardous decomposition products

- The thermal decomposition may release/form:
 - carbon monoxide (CO)
 - carbon dioxide (CO₂)

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

- Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.
- Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

- Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.
- May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.
- Splashes in the eyes may cause irritation and reversible damage
- Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.
- Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.
- 2-butoxyethanol and its acetate are absorbed directly through the skin and have harmful effects on the blood.

Mixture

- No toxicological data available for the mixture.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Substances

- No aquatic toxicity data available for the substances.

Mixtures

- No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

- No data available.

12.3. Bioaccumulative potential

- No data available.

12.4. Mobility in soil

- No data available.

12.5. Results of PBT and vPvB assessment

- No data available.

12.6. Other adverse effects

- No data available.

German regulations concerning the classification of hazards for water (WGK):

- WGK 2 (VwVwS vom 27/07/2005, KBws): Hazardous for water.

SECTION 13: DISPOSAL CONSIDERATIONS

- Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

- Do not pour into drains or waterways.

Waste:

- Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
- Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
- Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

- Empty container completely. Keep label(s) on container.
- Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

- Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2009 - IMDG 2008 - ICAO/IATA 2011).
- Classification:



- UN1950=AEROSOLS, flammable

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
2	5F	-	2.1	-	LQ2	190 327 625	E0	2	D	
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
2.1	SP63	-	SP277	F-D,S-U	63 190 277 327 959	E0				
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
2.1	-	-	203	75 kg	203	150 kg	A145 A167	E0		
2.1	-	-	Y203	30 kg G	-	-	A145 A167	E0		

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****- Particular provisions:**

- No data available.

- German regulations concerning the classification of hazards for water (WGK):

- Germany: WGK 2 (VwVwS vom 27/07/2005, KBws)

15.2. Chemical safety assessment

- No data available.

SECTION 16: OTHER INFORMATION

- Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.
- The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.
- It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
- The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Title for H, EUH and R indications mentioned in section 3:

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

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H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects .
H350	May cause cancer .
EUH066	Repeated exposure may cause skin dryness or cracking.
R 10	Flammable.
R 11	Highly flammable.
R 12	Extremely flammable.
R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R 36	Irritating to eyes.
R 36/38	Irritating to eyes and skin.
R 65	Harmful: may cause lung damage if swallowed.
R 66	Repeated exposure may cause skin dryness or cracking.
R 67	Vapours may cause drowsiness and dizziness.

Abbreviations:

- ADR: European agreement concerning the international carriage of dangerous goods by Road.
- IMDG: International Maritime Dangerous Goods.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organisation
- RID: Regulations concerning the International carriage of Dangerous goods by rail.
- WGK: Wassergefährdungsklasse (Water Hazard Class).