

Safety Data Sheet

#90028337 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Picloram	1918-02-1	C6H3Cl3N2O2	10	25 Sep 2026

SECTION 1

Identification

1.1 Product identifier

Product name Picloram**CAS number** 1918-02-1**EC / EINECS number** 217-636-1**Chemical formula** C6H3Cl3N2O2**Molecular weight** 241.46**SMILES** C1(=C(C(=NC(=C1Cl)Cl)C(=O)O)Cl)N

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

Laboratory use, Industrial use, Professional use. Not suitable for human or veterinary use

1.3 Details of the supplier of the safety data sheet

Molekula Limited

1 Millennium Way, Newton Aycliffe

Durham, DL5 6JW, United Kingdom

info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Eye Irrit. 2; H319

STOT SE 3; H335

STOT RE 2; H373

Aquatic Chronic 3; H412

2.2 Label elements



WARNING

CODE	HAZARD STATEMENT
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H319	Causes serious eye irritation
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

CODE	PRECAUTIONARY STATEMENT
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P260	Do not breathe dust/fume/gas/mist/vapours/spray
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
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 continuously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing
P501	Dispose of contents/container to an approved waste disposal plant

2.3 Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII. This product does not contain any known or suspected Endocrine disruptors.

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	Picloram
CAS number	1918-02-1
EC number	217-636-1
Concentration / purity	c. 100%
Classification according to Regulation (EC) No 1272/2008	Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Aquatic Chronic 3; H412
Hazard statements	H319, H335, H373, H412
Acute toxicity estimate (ATE)	<i>Not applicable</i>
Impurities / stabilising additives	None

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing; get medical advice if difficulties persist.
Skin contact	Take off immediately all contaminated clothing and wash immediately with plenty of water; consult a doctor if irritation persists.
Eye contact	Rinse immediately with plenty of water, remove contact lenses if present and easy to do, and continue rinsing; get medical advice if irritation persists.
Ingestion	Rinse mouth out with water, do not induce vomiting, and get medical advice.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, carbon dioxide, water spray, sand.

Unsuitable extinguishing media None known

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Carbon oxides

5.3 Advice for firefighters

Use water spray or fog for cooling exposed containers; wear proper protective equipment including respiratory protection.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate unnecessary personnel, avoid dust formation, eliminate ignition sources, and wear recommended protective equipment.

6.2 Environmental precautions

Prevent entry to sewers and public waters; notify authorities if necessary.

6.3 Methods and material for containment and cleaning up

Sweep or shovel into suitable closed containers for disposal.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Observe good chemical hygiene practices. Keep away from food, drink and animal feeding stuffs. Wash contaminated skin thoroughly after handling. Do not eat, drink or smoke when using this product. Remove contaminated clothing and launder thoroughly before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature Ambient

Conditions for safe storage (incompatibilities) Hygroscopic. Store under inert gas.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL) UK. EH40 WEL - Workplace Exposure Limits
TWA 10 mg/m³
STEL 20 mg/m³

DNEC/PNEC data Not applicable

8.2 Exposure controls

Eye / face protection Safety glasses
Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.

Skin / hand protection Gloves: Nitrile Rubber, 0.11mm (480 mins).

Respiratory protection Self-contained breathing apparatus
Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

Other protection Emergency eye wash fountains and safety showers should be available in the immediate vicinity.

Environmental exposure controls No data available

SECTION 9

Physical & chemical properties**9.1 Information on basic physical and chemical properties**

Appearance / physical state	Powder DERIVED FROM: LITERATURE
Colour	Off-white. Beige. DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	200-219°C DERIVED FROM: LITERATURE
Boiling point	Not applicable
Flammability	Not applicable
Lower and upper explosion limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
pH	Not applicable
Acidity	Neutral DERIVED FROM: LITERATURE
Kinematic viscosity	Not applicable
Solubility	Not applicable
Partition coefficient n-octanol/water (log value)	1.9 DERIVED FROM: LITERATURE
Vapour pressure	Not applicable
Density (g/mL)	1 g/mL DERIVED FROM: LITERATURE
Relative vapour density	Not applicable
Particle characteristics	Not applicable

9.2 Other information

No data available

SECTION 10

Stability & reactivity**10.1 Reactivity**

Non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Stable under recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Protect from sunlight; keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Strong oxidizers, strong acids, strong bases, acid anhydrides, acid chlorides.

10.6 Hazardous decomposition products

See section 5

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD50 / LC50) *Not applicable*

Skin corrosion / irritation Not classified

Eye corrosion / irritation Causes serious eye irritation.

Respiratory / skin sensitisation *Not applicable*

Carcinogenicity *Not applicable*

Mutagenicity *Not applicable*

Reproductive toxicity *Not applicable*

STOT (single / repeated exposure) Single exposure: May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure:
Liver, Kidney

Aspiration hazard *Not applicable*

11.2 Information on other hazards

Not applicable

SECTION 12

Ecological information

12.1 Toxicity

LC50 - Daphnia magna (Water flea) - 34.4 mg/l - 48 h Ref: External SDS

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulative potential

Not applicable

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations

13.1 Waste treatment methods

Dispose in a safe manner in accordance with local/national regulations.

SECTION 14

Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Special precautions for user *Not applicable*

Transport category *Not applicable*

Tunnel code *Not applicable*

Packing instruction (ADR) *Not applicable*

Packing instruction (IMDG) *Not applicable*

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

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

Substance-specific regulations (e.g. licences)

National Regulations:

-Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances

Other regulations, limitations and legal regulations:

-Directive 94/33/EC- The protection of young people at work.

REACH code

Y110

ECHA notification

Not applicable

15.2 Chemical safety assessment

Not applicable

SECTION 16

Other information

Revision notes / other information

Replaces previous SDS ver. 1 published 13th May 2019

Full list of H-Statements:

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H373 May causes damage to organs through prolonged or repeated exposure

H412 Harmful to aquatic life with long lasting effects

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.