

1: Identification of the Substance/mixture and of the Company/Undertaking**1.1. Product identifier**Product Name : **ACOIDAL 80 WG****1.2. Relevant identified uses of the substance or mixture and uses advised against**

Recommended use : Fungicide, micronized wettable Sulphur

Uses advised against : Activities contrary to label recommendations

1.3. Details of the supplier of the safety data sheet

Company : Quimetal Industrial S.A.

Address : Los Yacimientos 1301 Maipú, Santiago - Chile

Telephone : (56-2) 2381 7000

Fax : (56-2) 2381 7190

e-mail address : comercial@quimetal.cl**1.4. Emergency telephone number**

Emergency telephone number: (56-2) 2381 7000

In case of poisoning or accidental ingestion call CITUC Toxicology, Information Centre Toxicology of Clinical Hospital of the Universidad Católica Chile, phone (56-2)-2635 3800.

2: Hazards identification**2.1. Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Skin irritation (Category 2), H315

2.2. GHS Label elements, including precautionary statements

Pictogram



Signal word : Warning

Hazard statement(s)
H315 : Causes skin irritation.

Precautionary statement(s)

P102 : Keep out of reach of children
 P264 : Wash skin thoroughly after handling.
 P270 : Do not eat, drink or smoke when using this product
 P280 : Wear protective gloves.
 P302 + P352 : If on skin: Wash with plenty of soap and water.
 P332 + P313 : If skin irritation occurs: Get medical advice/ attention.
 P362 : Take off contaminated clothing and wash before reuse.

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS

May form flammable dust-air mixture.

3: Composition/information on ingredients**3.1. Substances**

Synonyms: Sulfur (Aerosol)

Formula: S

Molecular weight: 32.07 g/mol

CAS-No.: 7704-34-9

EC-No.: 231-722-6

Hazardous components

Component	Classification	Concentration
Sulfur		
	H315	80 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4: First aid measures

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

Eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available.

5: Firefighting measures

5.1. Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Take precautions by the emission of toxic gases (sulphur dioxide). Exposure to decomposition products may be a hazard to health.

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Isolate and ventilate the area. Turn off all sources of ignition. Prevent the spill from spreading. Do not generate dust

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

This operation must be performed only by trained personnel. Pick up with suitable tools without raising dust; place in appropriate containers, labelled and close to final destination.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

Refer to disposal considerations listed in section 13.

7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Handle only in well ventilated. For personal protection see section 8.

This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material.

Do not eat or drink while handling the product, change clothes once the working day.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Store in a safe, cool and dry, having good ventilation at all times. Use original containers that will maintain the product isolated from the environment and humidity.

Incompatible materials: Strong oxidizing agents, avoid combinations with emulsions or miscible oils. Perform compatibility tests before applying the product.

7.3. Specific end use(s)

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

8: Exposure controls/Personal protection

8.1. Control parameters

The following recommendations for exposure controls/personal protection are intended for the manufacture and packaging of the product.

8.2. Exposure controls

Engineering measures: Containment and/or segregation are the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne dust is generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.

Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory Protection: If there are problems with dust, use approved filter mask.

Hand protection: Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.

Eye protection: Wear eye protection to guard against dust, or as the case full-face mask.

Skin and body protection: No special protective equipment required. Select skin and body protection based on the physical job requirements.

Ventilation: There should be a place where it is vented at all times, whether natural or forced.

Hygiene measures: Keep away from food, wash hands before breaks and at end of work. No smoking, eating, drink in the areas of work. Save your work clothes separately.

9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	: solid.
Form	: granules
Colour	: light brown to dark brown
Odour	: no data available
Odour Threshold	: no data available
pH	: 8.0 to 9.5 at 10% w/v
Melting point/range	: 118 -120 °C
Boiling point/boiling range	: no data available
Flash point	: 207 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: not highly flammable
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Bulk density	: 0.8 – 1.0 g/cc (Tap)
Solubility in other solvents	: no data available
Partition coefficient n-octanol/water	: no data available
Autoignition temperature	: 232 °C
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available

9.2. Other information Miscibility : dispersible in water

10: Stability and reactivity**10.1. Reactivity:** No information available.**10.2. Chemical stability:** Stable under recommended storage conditions**10.3. Possibility of hazardous reactions:** None under normal processing.**10.4. Conditions to avoid:** Extremes of temperature, direct sunlight, ignition sources, moisture.**10.5. Incompatible materials:** Strong oxidizing agents. Amines. Bases.**10.6. Hazardous decomposition products:** No information available.**11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfur 7704-34-9	LD50 > 2000 mg/kg bw (rat - OECD 401)	LD50 > 2000 mg/kg bw (rat - OECD 402)	LC50 (4h) > 5.43 g/m ³ (dust) (rat - EPA OPP 81-3)

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

12: Ecological information**12.1. Toxicity**Toxicity to fish: LC50 *Cyprinus carpio* (Carp), > 5,000 mg/l, 96 hToxicity to aquatic invertebrates: EC50 *Daphnia magna* Straus, > 1,000 mg/l, 48 hToxicity to aquatic plants: EbC50 *Pseudokirchneriella subcapitata* (green algae), 290 mg/l, 72 h**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:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.**12.6. Other adverse effects:** No data available.

13: Disposal considerations**13.1. Waste treatment methods**

Product: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of wastes into sewer. If recycling is not practicable, dispose of in compliance with local regulations.
Contaminated packaging: Refer to product label.

SECTION 14: Transport information

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

SECTION 15: Regulatory informationFederal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous**Categorization**

Acute health hazard Yes
Chronic health hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CERCLA

SARA Product RQ 0

RCRAPesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Sulfur 7704-34-9 (80)			X	

State RegulationsState Right-to-Know

Chemical name	Massachusetts	Jersey	Pennsylvania	Illinois	Rhode Island
Sulfur	X	X	X		

SECTION 16: Other information**Further information**

Full text of H-Statements referred to under sections 2 and 3. H315 Causes skin irritation.

NFPA Health 2 Flammability 1 Instability 0 Special Hazards -

The information contained in this fact sheet were obtained from reliable sources. The views expressed in this form are those of trained professionals. Information provided in is known today on the subject. Considering that the use of this information and the products is beyond the control of the supplier, the company not liable for this concept. Determine the condition of safe use of the product is the user's obligation.

Preparation Date 01-August-2015
Revision Date 01-August-2015
Revision Summary Update to GHS format