

Safety Data Sheet

Revision date: 23/02/2007

replaces all previous editions.

CHES WG

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY OR UNDERTAKING

Identification of the Substance or Preparation

Tradename CHES
Design Code A9364A
AGI Code 25643

Company Identification

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components

Product denomination	CAS number	EC number	Hazard symbol	Risk phrases (R)	% w/w
pymetrozine	123312-89-0	-	Xn	40, 52/53	50
naphthalene sulphonic acid, dibutyl-, sodium salt	25417-20-3	246-960-6	Xn	20/22, 36/38	5 - 10

For the full text of the R phrases mentioned in this Section, see Section 16.

3. HAZARDS IDENTIFICATION

Limited evidence of carcinogenic effects. May form flammable dust-air mixture.

4. FIRST-AID MEASURES

General advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.

Medical advice: There is no specific antidote available. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Extinguishing media - small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires: Use alcohol-resistant foam or water spray.

Extinguishing media which must not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during fire fighting: Fire will spread by burning with flame. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to protective measures listed in sections 7 and 8. Avoid dust formation.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13). Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly.

Additional advice: If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

HANDLING

Advice on safe handling: 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. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

STORAGE

Requirements for storage areas and containers: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

Other data: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	Exposure limit(s)	Value type	Source
pymetrozine	0.8 mg/m ³	8 h TWA	SYNGENTA

ENGINEERING MEASURES

Containment and/or segregation is 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. Where necessary, seek additional occupational hygiene advice.

PERSONAL PROTECTIVE EQUIPMENT

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

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: A particulate filter respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

Hand protection: Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be changed when breakthrough is suspected. Suitable material: nitrile rubber.

Eye protection: Eye protection is not usually required. Follow any site specific eye protection policies.

Skin and body protection: Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.).

Wear as appropriate: Dust impervious protective suit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Granules.
Colour:	Beige to brown.
Odour:	Weak.
pH Value:	7 - 11 (1 % w/v).
Flammability (solid, gas):	Not highly flammable.
Dust explosion class:	Forms flammable dust clouds.
Minimum ignition energy:	< 1 J
Oxidising properties:	Not oxidising.
Explosive properties:	Not explosive.
Bulk density:	0.4 - 0.6 g/cm ³
Miscibility:	Miscible.
Solubility in other solvents	Not soluble.
Surface tension:	63.9 – 64.0 mN/m (20 °C).

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

Hazardous reactions: None known. Hazardous polymerisation does not occur. Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity LD50:	> 5000 mg/kg (rat)
Acute Dermal Toxicity LD50:	> 2000 mg/kg (rat)
Acute Inhalation Toxicity LC50:	> 3090 mg/m ³ (rat; 4 h)
Skin Irritation:	Non irritant (rabbit)
Eye Irritation:	Non irritant (rabbit)
Sensitisation:	Not sensitising (Maximization test: guinea pig) Not sensitising (Buehler test: guinea pig)
Long term toxicity:	Did not show mutagenic or teratogenic effects in animal experiments. Increased levels of liver tumours were observed at high doses in rats and mice. The relevance of these findings to humans is questionable. Did not show reproductive toxicity effects in animal experiments.

This information applies to pymetrozine. No adverse effects in humans are expected at levels below the occupational exposure limit and when the product is handled and used according to the label.

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

Bioaccumulation: Pymetrozine has low potential for bioaccumulation.

Stability in water: Pymetrozine is not persistent in water.

Stability in soil: Pymetrozine is not persistent in soil.

Mobility: Pymetrozine has slight mobility in soil.

ECOTOXICITY EFFECTS

Toxicity to Fish LC50: > 100 mg/l (*Oncorhynchus mykiss* (Rainbow trout); 96 h)

Toxicity to, Algae ErC50: > 100 mg/l (*Selenastrum capricornutum* (green algae); 72 h)

Toxicity to Aquatic Invertebrates EC50: > 100 mg/l (*Daphnia magna* (water flea); 48 h)

13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Rail / Road / Sea / Air (RID / ADR/ IMDG / IATA) Not classified as dangerous goods.

15. REGULATORY INFORMATION

Hazard symbol / Classification	Xn	HARMFUL
Risk phrases (R)	40	Limited evidence of a carcinogenic effect
Safety phrases (S)	2	Keep out of the reach of children.
	13	Keep away from food, drink and animal feeding stuffs.
	20/21	When using, do not eat, drink or smoke.
	36/37	Wear suitable protective clothing and gloves.
Special label:	-	To avoid risks to man and the environment, comply with the instructions for use.

16. OTHER INFORMATION

Always read the label. Use pesticides safely.

Product registration number MAPP 13310

Based on SDS release date: 07/06/2006, version 8. DPD compliant. Significant formatting revisions and new information to every section except section 15.

Text of R phrases mentioned in Section 2:

R20/22 Harmful by inhalation and if swallowed.

R36/38 Irritating to eyes and skin.

R40 Limited evidence of a carcinogenic effect.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.