

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

Product name – Better Flowable

Use – Herbicide

Formulation type – Suspension Concentrate

Supplier – Sipcam UK Limited, 3 The Barn, 27 Kneesworth Street, Royston, Herts SG8 5AB

Emergency phone no – Office 01763 212100

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition – Better FL contains 430g/l chloridazon

Common name – chloridazon

CAS/EC no – 1698-60-8

Hazard Symbol – Xn, N

R phrases – R43, R50/53

Conc^a – 36.1% w/w

3. HAZARDS IDENTIFICATION

Critical Hazard to man – Harmful if swallowed.

Contains chloridazon may produce an allergic reaction.

Critical Hazard to environment – Very Toxic to aquatic environment. May cause long term adverse effects in aquatic environment.

4. FIRST AID MEASURES

General advice – Remove from source of exposure.

Remove all contaminated clothing and wash affected area.

Inhalation – Remove the individual from exposure to this product and keep well ventilated with fresh air. Keep at rest. If necessary and if breathing stops, give artificial respiration. Seek medical attention.

Skin contact – Remove contaminated clothing immediately.

Wash affected area thoroughly with soap and water.

Rinse with more water. Seek medical attention.

Eye contact – Rinse immediately with plenty of water for at least 15 minutes and then seek medical attention.

Ingestion – If swallowed, wash mouth thoroughly, do not induce vomiting, seek medical attention immediately.

Poisoning symptoms – Chloridazon is a pyridazinone compound. The following symptoms were recorded in laboratory animals: CNS excitement and intestinal cramps.

Treatment – No Specific antidote. Treat Symptomatically and Supportive.

Consult a Poisons Centre such as:

0171 635 9191 (National Poisons Information Service - London)

(AUTHORISED MEDICAL PRACTITIONERS ONLY)

5. FIRE FIGHTING MEASURES

Suitable extinguishing media – Fight fire with CO₂, dry chemical powder, foam or water spray (in preference to water jet).

Specific hazards – This product is not flammable but may give rise to poisonous fumes* if strongly heated. The container is combustible (*Such as carbon monoxide, nitrogen oxides and hydrochloric acid.)

Protective equipment – Wear self-contained breathing apparatus (SCBA).

Specific Methods – Cool containers with spray. Contain fire-fighting water, bunding if necessary with sand, earth, or other inert material.

6. ACCIDENTAL RELEASE MEASURES

Personal Protective Equipment – Wear protective coveralls, neoprene gloves, rubber boots and faceshield or goggles, covering as much of the body as possible.

Environmental protection – DANGEROUS TO FISH OR AQUATIC LIFE. Do not contaminate surface water or ditches with chemical or used container. Use appropriate containment to avoid environmental contamination.

Clean up Methods – Sweep up carefully and shovel sweepings into marked bags or drums. Dispose of through a reputable local waste disposal contractor.

7. HANDLING AND STORAGE

Handling – Use Personal Protective Clothing as specified in Section 8.

Storage – KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. Keep away from heat sources and direct sunlight.

Other

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

This material and its container must be disposed of in a safe way.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Occupational Exposure Standard (OES) – There is no OES for this product.

Engineering measures – Where possible use a cab with a forced air filtration unit with a pesticide filter when spraying.

Personal Protective Equipment

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES* AND FACE PROTECTION (FACESHIELD) when handling the concentrate. (*neoprene or nitrile at least 0.6mm thick).

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

Where PPE cannot be cleaned, dispose of as contaminated waste.

9. PHYSICAL AND CHEMICAL PROPERTIES

State – Liquid

Density – 830g/kg (uncompressed)

Colour – White

Odour – Light, characteristic

pH (5% in water) – 7 - 9

Explosive properties – None

Flammability – Non Flammable

Vapour pressure – (ai) <0.01 Pa at 20°C

Solubility – (ai) Water 400mg/l

10. REACTIVITY AND STABILITY

Stability – Stable under normal ambient conditions. Non-flammable and non-corrosive. Chloridazon acts as a photosynthetic electron flow inhibitor.

Condition to avoid – High temperatures and direct sunlight.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ (rat) – >2,000 mg/kg (ai)

Acute dermal LD₅₀ (rat) – >2,000 mg/kg (ai)

Acute inhalation LC₅₀ (4h, rat) – >30.8 mg/l (ai)

NOEL (2-yr feeding trials) – Rat 150 mg/kg diet (5.4 mg/kg daily) (ai)
– Mouse 500 mg/kg diet (44 mg/kg daily) (ai)

Skin Irritation – non irritant

Eye Irritation – non irritant

Sensitisation – Not known to be a sensitiser

Carcinogenicity – Quickly absorbed, metabolised and secreted without significant retention

Mutagenicity – Negative

Teratogenicity – Negative

12. ECOLOGICAL INFORMATION

Ecotoxicity

(ai) Rainbow Trout LC₅₀ 32-46 mg/l (96hr)

(ai) Daphnia magna LC₅₀ 131 mg/l (48hr)

(ai) Bees oral/contact LC₅₀ >200ug/bee not toxic to bees

13. DISPOSAL

Contact Local Authority (Environmental Health Department) or a reputable waste disposal company for collection and disposal of unwanted product or containers.

14. TRANSPORT

UN Number – Not classified

Packaging Group –

Marine Pollutant – No

ADR/RID Classification – Not classified

IMDG/IMO Classification – Not classified

Proper shipping name – ENVIRONMENTALLY HAZARDOUS SUBSTANCE. LIQUID N.O.S (contains chloridazon)

15. REGULATORY INFORMATION

Hazard Symbol:

Xn – Harmful

N, – Dangerous for the environment

R22 – Harmful if swallowed

R50/53 – Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

16. OTHER INFORMATION

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

Packaging

Container – 5 Litre HDPE

Outer – 4 x 5 Litre in double-wall carton