

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

**Product name** – BETTER DF.

**Use** – Agricultural Herbicide.



**Formulation** – Water Dispersible Granule (WDG)

**Supplier** – Sipcam UK Limited, 4C Archway House, Melbourn Street, Royston SG8 7BX.

**Emergency No** – 01763 212100.




### 2. HAZARDS IDENTIFICATION

Classification of mixture according to Regulation (EC) Number 1272/2008

WARNING	
	
H317 H410	MAY CAUSE AN ALLERGIC SKIN REACTION VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS
Contains chloridazon	
Additional information for the wording of precautionary phrases refer to section 15.	

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Additional information** – For the wording of the listed risk phrases refer to section 16.

Hazardous ingredients			
	CAS/EINECS	R Phrases	%
Chloridazon	1698-60-8 / 216-920-2	 Skin sens. 1, H317;  Aquatic 1, H410	65.0%
Sodium polycarboxylate	37199-81-8	 Irritation, H315, H319, H335	8.0%

### 4. FIRST AID MEASURES

#### General information

Show this safety data sheet to the doctor. Immediately remove soiled clothing. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation

Supply fresh air or oxygen; call for doctor. In case of unconsciousness bring patient into stable side position for transport.

#### After skin contact

Instantly wash with water and soap and rinse thoroughly.

#### After eye contact

If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### After swallowing

In case of persistent symptoms consult doctor.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically. No further relevant information available.

### 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water jet.

Fight larger fires with water jet or alcohol-resistant foam.

#### Special hazards arising from the substance or mixture

Carbon monoxide, hydrogen chloride, nitrogen oxides, can be released.

#### Protective equipment

Do not inhale explosion or combustion gases.

Put on breathing apparatus & protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Avoid causing dust. Ensure adequate ventilation. Keep unprotected persons away.

#### Environmental precautions

Do not allow to enter drainage system, surface or ground water.

Keep dirty washing water for appropriate disposal.

#### Methods and material for containment and cleaning up

Collect mechanically.

#### Reference to other sections

See Section 7 for safe handling, 8 for personal protection equipment, 13 for disposal information.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

#### Information about protection against explosions and fires

Keep ignition sources away. Do not smoke.

The product is not flammable.

#### Conditions for safe storage, including any incompatibilities:

**Storage requirements to be met by storerooms and containers:**

Store in a cool location. Store only in original container.

The product is hygroscopic. Store under dry conditions.

#### Information about storage in one common storage facility

Not required.

#### Further information about storage conditions

Keep container tightly sealed. Protect from heat, direct sunlight and frost.

### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

#### Components with limit values that require monitoring at the workplace

The product does not contain materials with critical values.

#### Personal protective equipment

The usual precautionary measures should be adhered to general rules for handling chemicals.

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Do not eat or drink while working.

Avoid contact with eyes and skin.

#### Breathing equipment

In case of brief exposure or low pollution use breathing filter apparatus.

In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Recommended filter device: Filter P1

#### Protection of hands

Protective gloves.

#### Eye protection

Sealed safety glasses

#### Body protection

Protective work clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### 10. REACTIVITY AND STABILITY

#### Thermal decomposition / conditions to be avoided

**Appearance:** Melting point or range – Not determined. Dust content – Almost dust free.

**Form – solid** Boiling point or range – Not determined. Solids content – 100%

**Colour – Brown** Flash point – Not applicable. Solubility / Miscibility (water) – Dispersible.

**Odour** – Characteristic. Self-Flammability – Not self igniting. Solubility / Miscibility (water) – Dispersible.

**pH-value at 20°C** – 7.4 @ **Danger of explosion** – Product is not explosive. **Density** – 0.7-0.9 g/cm<sup>3</sup> @ 20°C **Viscosity** – 1043 cps

No decomposition if used according to specifications.

#### Possibility of hazardous reactions

No dangerous reactions known.

#### Conditions to avoid

No further relevant information available.

#### Incompatible materials

No further relevant information available.

#### Hazardous decomposition products

Thermal decomposition products may include toxic and corrosive fumes of chlorides and toxic oxides of nitrogen.

### 11. TOXICOLOGICAL INFORMATION

#### LD/LC50 values that are relevant for classification

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

Inhalation LC50 >5.21 mg/l (rat)

#### Skin Irritation

No irritant effect.

#### Eye Irritation

No irritant effect.

#### Sensitization

May cause sensitisation by skin contact.

### 12. ECOLOGICAL INFORMATION

#### Aquatic toxicity (active ingredient)

EC 50: 1.49 mg/l (0-72h)(algae)

LC 50: 52 mg/l (96h) (rainbow trout)

EC 50: 204 mg/l (48h) (daphnia magna)

#### Persistence and degradability

No further relevant information available.

#### PBT

Not applicable

#### vPvB

Not applicable

### 13. DISPOSAL

#### Waste or used preparation

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

Collect spillage

#### Disposal of packaging

Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste

### 14. TRANSPORT

UN-Number (ADR, IMDG, IATA)

3077

Proper shipping name (ADR/RID, IMDG, ICAO/ IATA)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains Chloridazon)

Hazard class (ADR, IMDG, IATA)

Class 9+P

Packing group (ADR, IMDG, IATA)

III

Marine pollutant

Yes

Hazard Label

9, F-A, S-F

### 15. REGULATORY INFORMATION

#### Hazard-determining components of labelling

CHLORIDAZON,

Precautionary (P) statements:

**P264** Wash hands and face thoroughly after handling

**P280** Wear gloves, protective clothing and eye/face protection

**P302+P352** IF ON SKIN: Wash with plenty of soap and water

**P333+P313** If skin irritation or rash occurs: Get medical advice/attention

**P391** Collect spillage

**P501** Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste

**SP1** Do not contaminate water with the product or its container (Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads)

This substance is not to be considered as persistent, bioaccumulative criterion and is not toxic (PBT).

### 16 OTHER INFORMATION

#### R Phrases referenced in section 3

**H315** Causes skin irritation

**H317 Skin sens 1** May cause allergic reaction to skin

**H319** Causes serious eye irritation

**H335 STOT SE 3** May cause respiratory irritation

**H410 Aquatic chronic 1** Very toxic to aquatic life with long lasting effects

*Prepared by Sipcam UK Ltd to the best of our current knowledge and information: No responsibility is accepted that the information will be sufficient or correct in all cases. October 2014*