

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

**Product name** TONALE  
**Use** Herbicide.  
**Formulation** Mixed formulation of CS and SC  
**Supplier:** Sipcarn UK Limited, 4c Archway House, The Lanterns, Melbourn Street, Royston SG7 8BX.  
**Emergency No** 01763 212100.

## 2. HAZARDS IDENTIFICATION

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

### WARNING



H302 H373 H410	HARMFUL IF SWALLOWED MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS
----------------------	---

**Additional information** For the wording of safety phrases refer to section 15.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients (according to Regulation EC 1272/2008)

	CAS/EINECS	Hazard Statements	%
Terbutylazine	5915-41-3/227-637-9	H302, H373, H400, H410	34.01%
Mesotrione	104206-82-8	H400, H410	6.8%
Clomazone	81777-89-1/617-258-0	H302, H331, H400, H410	3.67%
Propane 1,2-diol	57-55-6/200-338-0		2.5-10%
1,2-benzisothiazol-3-one		H302, H315, H317, H318, H400	<0.05%

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

## 4. FIRST AID MEASURES

### General information:

Show this safety data sheet to the doctor. Remove any clothing soiled by the product.

### After inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

### After skin contact:

Wash immediately with plenty of soap and water. Call a physician if irritation develops or persists.

### After eye contact:

Immediately flush with water holding eyelid open. Continue for 15 minutes or longer until clean. Remove contact lenses, if present, after the first 5 minutes, then continue to rinsing eyes. Keep eye wide open while rinsing

### After swallowing:

Call a doctor immediately. Do not induce vomiting. Wash out mouth with water.

### Information for doctor:

No further relevant information available.

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

Seek advice of a Poison Control Centre.

<b>5. FIRE FIGHTING MEASURES</b>		
<p><b>Suitable extinguishing agents</b>  Suitable extinguishing media: Carbon dioxide or extinguishing powder, use alcohol-resistant foam or water jet for larger fire. Do not use direct stream of water to extinguish</p> <p><b>Special hazards arising from the substance or mixture</b>  Formation of toxic gases in fire including carbon monoxides and oxides of nitrogen and sulphur.</p> <p><b>Protective equipment:</b>  Do not inhale combustion gases. Put on breathing apparatus if there is a potential for exposure to combustion fumes.  Cool endangered containers with water spray jet. Collect contaminated fire fighting water separately. It must not enter drains.</p>		
<b>6. ACCIDENTAL RELEASE MEASURES</b>		
<p><b>Personal precautions, protective equipment and emergency procedures:</b>  Ensure adequate ventilation. Wear protective clothing, keep unprotected persons away. Keep away from ignition sources.</p> <p><b>Environmental precautions:</b>  Inform respective authorities in case product reaches water or sewage system.  Do not allow to enter drainage system, surface or ground water.</p> <p><b>Methods and material for containment and cleaning up:</b>  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  Dispose of contaminated material as waste according to item 13.</p> <p><b>Reference to other sections:</b>  See Section 7 for safe handling, 8 for personal protection equipment, 13 for disposal information</p>		
<b>7. HANDLING AND STORAGE</b>		
<p><b>Precautions for safe handling</b>  Ensure good ventilation/exhaustion at the workplace. Wear PPE.  Keep away from heat and direct sunlight. Prevent formation of aerosols</p> <p><b>Information about protection against explosions and fires:</b>  Keep ignition sources away. Do not smoke</p> <p><b>Conditions for safe storage, including any incompatibilities</b>  <b>Storage</b>  <b>Requirements to be met by storerooms and containers:</b>  Store in a cool, dry, well ventilated area. Store only in the original receptacles. Stable under normal conditions. Do not store together with foodstuffs, beverages and feed. Observe regulations for storage of flammable liquids.</p> <p><b>Information about storage in one common storage facility:</b> Not required.  <b>Further information about storage conditions:</b>  Keep container tightly sealed. Store away from foodstuffs. Keep container tightly sealed.</p>		
<b>8. EXPOSURE CONTROL / PERSONAL PROTECTION</b>		
<b>Components with limit values that require monitoring at the workplace:</b>		
10043-52-4 calcium chloride	DNEL	10 mg/m <sup>3</sup> (short-term) , 5 mg/m <sup>3</sup> (long-term)
7664-38-2 phosphoric acid	DNEL	2.92 mg/m <sup>3</sup> (long-term)
<p><b>Personal protective equipment</b>  The usual precautionary measures should be adhered to for handling chemicals.  Avoid breathing spray.  Avoid contact with eyes and skin.  Keep away from foodstuffs, beverages and food. Immediately remove all contaminated clothing.  Wash hands and face thoroughly after handling.  Do not eat, drink or smoke while working.</p> <p><b>Breathing equipment:</b>  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.</p>		
<b>Protection of hands:</b> Protective gloves.	<b>Eye protection:</b> Safety glasses	<b>Body protection:</b> Protective work clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES		
<b>Appearance:</b>	<b>Boiling point or range:</b> not applicable	<b>Viscosity:</b> 692 mPas
<b>Form:</b> Liquid	<b>Flash point:</b> product not highly flammable	<b>Solubility / Miscibility (water):</b> Dispersible
<b>Colour:</b> Light beige	<b>Self-Inflammability:</b> not applicable	<b>Density:</b> 1.12 g/cm <sup>3</sup>
<b>Odour:</b> Slightly sweetish	<b>Danger of explosion:</b> Product is not explosive.	<b>pH-value at 20°C:</b> 2.43
10. REACTIVITY AND STABILITY		
<b>Thermal decomposition / conditions to be avoided:</b> Stable under normal conditions <b>Possibility of hazardous reactions:</b> No dangerous reactions known. <b>Conditions to avoid:</b> No relevant information available. <b>Incompatible materials:</b> No relevant information available. No relevant information available. <b>Hazardous decomposition products:</b> During decomposition evolves toxic fumes		
11. TOXICOLOGICAL INFORMATION		
<b>LD/LC50 values that are relevant for classification:</b>		
Oral LD50: >300 mg/kg (rat)	Dermal LD50: >2000 mg/kg (rat)	Inhalation LC50/4 h >5 mg/l (rat)
<b>Skin Irritation:</b> Not irritating <b>Eye Irritation :</b> Not irritating. <b>Sensitisation:</b> Not sensitizing by skin contact.		
12.ECOLOGICAL INFORMATION		
<b>Aquatic toxicity :</b> EC 50: 0.08 mg/l (algae)                      LC 50: 83 mg/l ( <i>daphnia magna</i> ) LC 50: 7 (96h) mg/l (rainbow trout)		
<b>Persistence and degradability:</b> Not readily biodegradable (based on data on the active substance). <b>Bioaccumulative potential :</b> Low (TBZ can bioaccumulate) <b>Mobility in soil:</b> Not persistent in soil (TBZ medium mobility). <b>Notes:</b> Do not allow product to reach groundwater, water bodies or sewage system. Danger to drinking water. Very toxic to aquatic organisms. This product is not identified as PBT/vPvB substance		
13. DISPOSAL		
<b>Waste or used preparation:</b> This material and its container must be disposed of in a safe way and according to national regulations. Must not be disposed of with household garbage. Collect spillage Do not allow product to reach sewage system. <b>Disposal of packaging:</b> Dispose of contents/container to a licensed waste disposal contractor. The container cannot be reused.		
14. TRANSPORT		
<b>UN-Number (ADR, IMDG, IATA)</b> 3082 <b>Proper shipping name(ADR, IMDG, IATA)</b> 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (mesotrione (ISO)) 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (terbuthylazine (ISO)) <b>Hazard class (ADR,IMDG, IATA):</b> Class 9 Miscellaneous Dangerous Goods <b>Packing group (ADR, IMDG, IATA):</b> III <b>Marine pollutant:</b> Yes <b>Special marking (ADR):</b> 90, F-A, S-F, E1 5L (limited quantity)		
15. REGULATORY INFORMATION		
Labelling is in accordance with Regulation (EC) No 1272/2008 (CLP) in the current version. The safety data sheet is prepared in accordance with EC Directive 2015/830.		

**Hazard-determining components of labelling:** Mesotrione, Terbutylazine

**Precautionary (P) statements:**

P260	Do not breathe spray
P273	Avoid release to the environment
P301+P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell
P314	Get medical advice/attention if you feel unwell
P405	Store locked up
P501	Dispose of contents/container to a licensed waste disposal contractor or collection site and in accordance with national regulations
EUH208	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
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)

PBT: This product is not identified as PBT/vPvB substance.

**16. OTHER INFORMATION**

R Phrases referenced in section 3:

H302 Acute tox 4	Harmful if swallowed
H315 Skin irrit 2	Causes skin irritation
H317 Skin sens 1	May cause an allergic skin reaction
H318 Eye damage 1	Causes serious eye damage
H331 Acute tox 3	Toxic if inhaled
H373 STOT RE 2	May cause damage to organs through prolonged or repeated exposure
H400 Aquatic acute 1	Very toxic to aquatic life
H410 Aquatic chronic	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.*

*Created 7<sup>th</sup> April 2020 issue 1 Revision Date 7<sup>th</sup> April 2022*