



## SAFETY DATA SHEET

### Trigger®

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

##### 1.1 Identifiers

Product name: **Trigger®**  
Other Name(s): Soluble concentrate containing N6-benzyladenine 20 g/L

##### 1.2 Recommended use of the chemical and restrictions on use

Product Use: Plant growth regulator

##### 1.3 Supplier contact details:

Company name: Grosafe Chemicals Limited  
Address: 20 Jean Batten Drive Mt Maunganui, 3116  
Telephone: 0800 220 002  
Email: [info@grosafe.co.nz](mailto:info@grosafe.co.nz)

Emergency telephone number 0800 CHEMCALL (0800 243 622)

#### SECTION 2: HAZARD IDENTIFICATION

##### 2.1 Classification of the Hazardous Chemical

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996.

HSNO Substance Approval: HSR000755

Classifications: Eye irritation Category 2, Designed for biocidal action.

##### 2.2 Label elements:

###### Pictograms:



Signal Word: **WARNING**

###### Hazard statements:

H319 Causes serious eye irritation.

###### Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017

Do not apply directly into or onto water.

###### Precautionary statements:

###### Prevention

P103 Read label before use.  
P264 Wash hands thoroughly after handling.  
P280 Wear eye protection.

*Response*

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.

*Storage*

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*Disposal*

P501 Dispose of contents/container in accordance with local regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion % w/w
6-Benzyladenine	1214-59-7	18 – 20*
Other ingredients	Trade secret	balance
* equivalent to 20 g/L		

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

**General Information:**

For advice call the National Poison Centre, telephone 0800 POISON [0800 764 766]. Have label or Safety Data Sheet at hand.

**Ingestion:** If swallowed, rinse mouth with water. Do not induce vomiting. Call the NATIONAL POISONS CENTRE or doctor for advice if concerned or person feels unwell.

**Skin Contact:** Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if irritation persists.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if irritation persists.

**Inhalation:** Remove person to fresh air and keep at rest in a position comfortable for breathing. Call the NATIONAL POISONS CENTRE or doctor for advice if concerned or person feels unwell.

#### 4.2 Symptoms caused by exposure

No specific symptoms identified.

#### 4.3 Medical attention and special treatment

Treat symptomatically.

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 Suitable extinguishing media

Use water spray or fog, foam, CO2 or dry chemical as appropriate for surrounding materials, Contain extinguishing media to prevent runoff into drains, sewers, waterways.

#### 5.2 Specific hazards arising from the chemical

Fire decomposition products may be toxic/harmful and/or irritating if inhaled.

Evacuate people to safe area upwind of fire.

#### 5.3 Special protective equipment and precautions for fire fighters

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA).

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Have this SDS available. In the event of a spill, wear appropriate protective clothing and eye/hand protection. Wash contaminated personal protective equipment and clothing and dry before re-use.

### 6.2 Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

### 6.3 Methods and materials for containment and cleaning up

Contain spilled material. For small liquid spills, use absorbent material such as sand, soil, vermiculite and recover into labelled drums that can be sealed for safe disposal. For large liquid spills, recover liquid into labelled containers then absorb remaining liquid and transfer to drums for disposal. Clean area with water and detergent.

Dispose of contaminated materials to approved landfill in accordance with local regulations.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Read the label before use. Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area

When applying product avoid inhalation of spray mist/aerosols. Wear protective equipment such as coat/trouser (overalls), boots, gloves and eye protection.

Wash hands and exposed skin with soap and water after handling and before rest or meal breaks.

Do not eat, drink or smoke when using.

Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent.

### 7.2 Conditions for safe storage

Store securely in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area and out of direct sunlight. Keep away from sources of heat, food, drink and animal feedstuffs.

Storage of 10,000 L or more of this product requires an emergency response plan, secondary containment and signage.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control parameters – exposure standards, biological monitoring

Ingredient	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
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### 8.2 Engineering controls

Recommended to use in well-ventilated area or outdoors.

### 8.3 Personal protective equipment (PPE)

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

**Eye/Face Protection:** Wear chemical splash goggles if eye contact with dust or spray moist/aerosol is possible.

**Skin Protection:** Wear impervious chemical resistant gloves (e.g. nitrile, butyl), coveralls, socks and chemical resistant footwear. For overhead spray exposure, wear chemical resistant headgear. Ensure all skin areas are covered.

**Respirator:** Use outdoors in well-ventilated area or use local exhaust ventilation. Where product is being sprayed and a mist could be produced a respirator should be worn. It should be fitted with a cartridge, suitable for organic vapours..

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid
Odour	Slight
Odour threshold	Not known
pH	5.0 – 7.0
Melting/Freezing Point	No data available
Boiling Point /Range	No data available
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Vapour Pressure	No data available
Vapour density	No data available
Specific gravity/bulk density	ca 1.06
Solubility	Soluble in water
Partition Co-efficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

This product is unlikely to react or decompose under normal storage conditions.

### 10.2 Chemical stability

Stable under normal temperatures and pressure for storage and use.

### 10.3 Conditions to Avoid

Avoid storage in direct sunlight, exposure to extremes of temperature (>30 °C or <10 °C) and contact with incompatible materials.

### 10.4 Incompatible materials and possible hazardous reactions

Strong oxidising agents.

### 10.5 Hazardous decomposition products

**Fire Decomposition:** Smoke, carbon and nitrogen oxides and other unspecified compounds.

### 10.6 Polymerisation

Not known to occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product.

### 11.2 Toxicological information

Acute toxicity:	Not classified as being acutely toxic. May be harmful if ingested.
Aspiration hazard:	Product contains no components with aspiration hazard.
Respiratory irritation:	Not classified.
Skin corrosion/irritation	Not classified as skin irritant. May be mildly irritating.

Serious eye damage/irritation	Classified as serious eye irritant
Respiratory or skin sensitisation	Not classified as a respiratory or contact sensitiser.
Germ cell mutagenicity:	No ingredients in product identified as presumed or suspected mutagens.
Carcinogenicity	No ingredients in product identified as presumed or suspected carcinogens.
Reproductive toxicity	Product is not classified. The ECHA database identifies 6-benzyladenine as may be suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single/repeated exposure	Not classified for adverse effects to organs or systems from single, prolonged or repeated oral exposure.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

**11.3 Toxicological data:**

6-benzyladenine	Oral, LD <sub>50</sub> (rat) 1584 mg/kg bw Dermal, LD <sub>50</sub> (rat) 5000 mg/kg bw Inhalation, LC <sub>50</sub> 4 h (rat) >5 mg/L
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**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Ecotoxicity**

This product is classified for biocidal action.

**12.2 Environmental Fate**

**Breakdown in soil and groundwater:** No information available.

**Bioaccumulation:** No information available.

**Partition coefficient (octanol/water):** Not available.

**Soil mobility:** No information available.

**12.3 Ecotoxicity data:**

6-benzyladenine	Fish: <i>Oncorhynchis mykiss</i> LC <sub>50</sub> (96 hr) 0.53 mg/L Crustacea: <i>Daphnia spp</i> EC <sub>50</sub> (48 h) 0.32 mg/L Alga: <i>Pseudokirchneriella subcapitata</i> EC <sub>50</sub> (72 hr) 0.19 mg/L
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**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Product Disposal**

Refer to product label. If possible, dispose of by using according to the label. Otherwise dispose of to an approved landfill or waste management facility in accordance with local regulations.

**13.2 Container Disposal**

Refer to product label. Do not use packaging for storage of other products. Empty water rinsed packaging should be disposed of to an approved pesticide recycler or crushed and sent to approved landfill.

**SECTION 14: TRANSPORT INFORMATION**

**Road and Rail Transport:**

Classified as non- Dangerous Good according to NZS5433 Transport of Dangerous Goods on Land

**Marine Transport (IMO/IMDG):**

Classified as non-Dangerous Good Class by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**Air Transport (ICAO/IATA):**

Classified as non-Dangerous Good Class by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

**UN Number:** Non-regulated  
**UN Proper Shipping Name:** -  
**Transport hazard class(es)** -  
**Packing Group:** III  
**HAZCHEM:** 2X  
**Special Precautions for User:** -  
**IMDG Marine pollutant:** -  
**Transport in Bulk:** -

**SECTION 15: REGULATORY INFORMATION**

**15.1 HSNO Act 1996**

Hazardous substance according to Hazardous Substances (Hazard Classification) Notice 2020.

**Approved substance number:** HSR000755

**Hazardous classifications:** Hazardous to soil organisms, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1.

**Controls:** Refer to [www.epa.govt.nz](http://www.epa.govt.nz) for all Controls.

Restricted to workplaces only	-
Quantity that requires management in accordance with HSW HS regulations	-
Threshold quantity to be secured when left unattended	-
Location compliance certificate	10,000 L
Secondary containment and emergency response plan threshold quantity	10,000 L
Signage threshold quantity	10,000 L
Record keeping requirement (3 kg applied in 24 h period)	No
Qualified trained handler for mixing, loading, application	No

**Additional Controls :** Clause 52 of the Hazardous Property Control Notice applies as an additional control.

- The substance must not be applied onto or into water.

**Additional information:** Refer to HS Notices ([www.epa.govt.nz](http://www.epa.govt.nz)) and HSW HS Regulations ([www.worksafe.govt.nz](http://www.worksafe.govt.nz))

**15.2 ACVM Act 1997**

**Registration number:** P7320

Refer to [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

## SECTION 16: OTHER INFORMATION

### 16.1 Date of preparation or last revision of SDS

<b>SDS issued</b>	8 September 2021
<b>SDS supersedes</b>	June 2011
<b>Reason issued</b>	Change in SDS format and new HSNO descriptions.

### 16.2 ABBREVIATIONS

<b>ADI</b>	Acceptable Daily Intakes
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>CCID</b>	Chemical Classification Identification Database
<b>EPA</b>	Environmental Protection Authority
<b>ErC<sub>50</sub></b>	Half maximal Effective Concentration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>HSNO</b>	Hazardous Substances and New Organisms
<b>HS</b>	Health and Safety
<b>HSR</b>	Hazardous Substances Register
<b>IARC</b>	International Agency for Research on Cancer
<b>LC<sub>50</sub></b>	Median Lethal Concentration
<b>LD<sub>50</sub></b>	Median Lethal Dose
<b>SDS</b>	Safety Data Sheets
<b>NOAEL</b>	No Observable Adverse Effect Level
<b>NOEL</b>	No Observable Effect Level
<b>NOS</b>	Not otherwise specified
<b>STEL</b>	Short Term Exposure Limit
<b>SWA</b>	Safety Work Australia
<b>TWA</b>	Time-Weighted Average
<b>UN Number</b>	United Nations Number

### 16.3 REFERENCES

EPA CCID and Approved Substance databases  
PPDB- Pesticides Properties DataBase

### 16.4 OTHER

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End of Safety Data Sheet