



SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010

6-BENZYLADENINE 2SL

Ref. 6BA2SLCLP/EU/320gb

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

MaxCel, SupraFit (trade names)
6-benzyladenine, 1.9% soluble concentrate (20 g/l)
GIFAP code: SL
EC number: not applicable

1.2. Relevant identified uses of the substance or mixture and uses advised against

Plant growth regulator (agricultural use)
Not for public use

1.3. Details of the supplier of the safety data sheet

SUMITOMO CHEMICAL AGRO EUROPE S.A.S.
Parc d'Affaires de Crécy
10A, rue de la Voie Lactée
69370 Saint-Didier-au-Mont-d'Or
France
Tel.: +33 (0) 478 64 32 60
email: sds@sumitomo-chem.fr

Manufacturer of the product

VALENT BIOSCIENCES CORPORATION
870 Technology Way
Libertyville, Illinois 60048
USA
Tel.: +1 847 9684700



1.4. Emergency Telephone number 24/24hrs

Europe +44 (0) 1235 239 670
Middle East & Africa +44 (0) 1235 239 671

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Not classified as hazardous according to regulation (EC) No 1272/2008 (CLP)

Signal word(s) none

Pictogram (s) none

Hazard statement(s) none

2.2. Label elements

Signal word(s) none

Pictogram (s) none

Hazard statement(s) none

Precautionary statement(s)

P261: Avoid breathing spray.
P280: Wear protective gloves/protective clothing
P501: Dispose of contents/container in accordance with local regulation.
EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.
EUH 208: Contains 3,4,5-Trihydroxybenzoic acid propyl ester. May produce an allergic reaction.



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Special risks and safety precautions (Commission Regulation (EU) 547/2011):

General provisions

SP 1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water).

Specific safety precautions

None

2.3. Other hazards

none known.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2. This product is to be considered as a mixture in conformance to EU regulations.**

Composition/Information on hazardous ingredients

Number	% w/w	CAS number	Chemical name
1	2	1214-39-7	6-benzyladenine
2	>3	68131-39-5	Ethoxylated Alcohols
3	≤0.1	121-79-9	3, 4, 5-Trihydroxybenzoic acid propyl ester
4	>1- <10	77-92-9	Citric acid, anhydrous

Number	EC number	Annex-1 listing	Regl 1272/2008 Pict.	Hazard statements
1	214-92-7-5	yes	GHS07, GHS08, GHS09	H302, H361D, H400, H411
2	/	/	GHS07, GHS05, GHS09	H302, H318, H400
3	204-498-2	NA	GHS07	H317
4	/	NA	GHS07	H319

Other information

code ID: VBC-30001

4. FIRST AID MEASURES

4.1. Description of first aid measures

General

In all cases of doubt, seek medical attention.

Inhalation

Move to fresh air. If symptoms persist, seek medical advice.

Skin

Remove contaminated clothing. Wash skin immediately with water.

Eye

Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

Ingestion

Rinse mouth. Never induce vomiting in unconscious or confused persons. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No typical symptoms and effects known.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment is advised.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Dry chemical powder, carbon dioxide, foam, sand or water.

Unsuitable extinguishing media

none known.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition during combustion may evolve toxic and irritant vapours.

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus. Wear suitable protective clothing and eye/face protection.

Other information

Water used to extinguish a fire should not be allowed to enter the drainage system or watercourses.

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6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel Wear protective gloves, safety goggles or face shield, and suitable protective clothing.
Remove of ignition sources.
Evacuate the danger area.

For emergency responders Wear protective gloves (nitrile), safety goggles or face shield, and suitable protective clothing.
Remove of ignition sources.
Evacuate the danger area or consult an expert.

6.2. Environmental precautions Do not allow to escape into sewage system or water courses. Do not wash residues into drains or other waterways.

6.3. Methods and material for containment and cleaning up

Containment of a spill Do not allow to escape into sewage system or water courses.

Clean-up procedures In case of spill (liquid) soak it up immediately with suitable absorbent, such as sawdust or granular absorbent clay. Sweep up and place into sealable containers. Dig up heavily contaminated soil and place into drums. Use a damp cloth to clean floors and other objects, and also place in sealable container. Dispose of all waste and contaminated clothing in the same manner as waste chemicals (i.e. via an authorized disposal facility). Do not wash residues into drains or other waterways.

6.4. Reference to other sections For personal protection see section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling The usual precautions for handling chemicals should be observed. For personal protection see section 8.

Fire and explosion prevention No specific recommendations.

7.2. Conditions for safe storage, including any incompatibilities

Storage requirements Store in a dry and cool place. Keep container in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. Do not drink, eat and smoke in work areas.

Other information Do not mix with water (except for the normal preparation).

7.3. Specific end use(s) see label on the container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

There is no national exposure limit for this product.
No chemical safety report is required for this kind of product.

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation.

Individual protection measures

Respiratory

The usual precautions for handling chemicals should be observed.

Hand

Wear protective gloves of nitrile.

Eye

Wear safety goggles or face shield.

Skin and body

Wear suitable protective clothing.

Other information

Launder clothes before reuse.



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9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Name	6-benzyladenine, 1.9%-soluble concentrate (20 g/l)
Appearance	slightly viscous liquid (visual assessment)
Colour	clear, colourless (visual assessment)
Odour	no appreciable odour (Olfactory assessment)
Odour threshold	not determined
pH value	3.45 (1% in water, 20°C) (CIPAC MT 75)
Melting point/freezing point	not determined
Initial boiling point & boiling range	not determined
Flash point	106 °C (EEC A.9)
Evaporation rate	not determined
Flammability	not "highly flammable" (based on the components)
Upper/lower flammability or explosive limits	LEL 2.6%, UEL 12.6% (propylene glycol)
Vapour pressure	not determined (6-benzyladenine: 6×10^{-7} Pa, 25°C, OECD 104)
Vapour density	not determined
Relative density	1.05 g/ml (20°C) (EEC A.3)
Bulk density	not applicable
Solubility in water	soluble in water (solubility of 6-benzyladenine = 65.7 mg/l (20°C, pure water) (OECD 105)
Solubility in other solvents	not applicable
Partition coefficient n-octanol/water	not applicable (6-benzyladenine: log Pow = 2.16, 20°C) (OECD 107)
Autoignition temperature	377 °C (EEC A.15)
Decomposition temperature	the active substance decomposes at temperatures > 245°C
Dynamic viscosity	not determined
Kinematic viscosity	70.5 cS (20 °C) (OECD 114)
Explosive properties	not explosive (based on the chemical structure of the active substance and ingredients)
Oxidising properties	not oxidising (based on the chemical structure of the active substance and ingredients)
9.2. Other information	
Relative vapour density (air = 1)	not determined
Surface tension	31.4 mN/m (1 g/l aqueous solution, 19.5 °C) (EEC A.5)

10. STABILITY AND REACTIVITY

10.1. Reactivity	Stable under recommended storage and handling conditions (see also section 7).
10.2. Chemical stability	Stable for a minimum of 2 years under recommended storage and handling conditions (see section 7).
10.3. Possibility of hazardous reactions	None known.
10.4. Conditions to avoid	Avoid high temperatures, light, humidity.
10.5. Incompatible materials	Oxidizers.
10.6. Hazardous decomposition products	Thermal decomposition during combustion may evolve toxic and irritant vapours (see also section 5).

11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

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Name *6-benzyladenine, 1.9% soluble concentrate (20 g/l)*

Acute toxicity

Oral LD₅₀ rat: >5000 mg/kg (OECD 423)
Dermal LD₅₀ rat: >5000 mg/kg (OECD 402)
Inhalation LC₅₀ rat (4 hours): > 4.99 mg/l (nose-only) (OECD 403)

Irritation

Skin weakly irritating (OECD 404)
Eye weakly irritating (OECD 405)
Sensitization not sensitizing (maximisation test) (OECD 406)

Other toxicological information

The following data are applicable to the ingredient(s) listed below:

Name **Active substance, 6-benzyladenine, technical grade**
 - Genotoxicity: negative (US EPA 152B-15, 152B-17, EPA FIFRA 84-2, OECD 473, OECD 476)
 - Carcinogenicity: no carcinogenic effect. Assumption of "non-harmful" is strongly supported by absence of major effects in regulatory acute and subchronic studies at very high doses in rodents. Short-term and subchronic toxicity studies show a low order of toxicity, which doesn't appear to increase with duration of exposure. Literature search has not raised any issues which could lead one to suspect carcinogenicity.
 - Multigeneration reproduction study (rat): negative (OECD 416)
 - Teratogenicity: suspected of damaging the unborn foetus (FIFRA § 152B-13, OECD 414)

Based on the available data, no classification criteria are met for any of these hazard classes.

Information on likely routes of exposure

This product is for agricultural use; therefore the most probable routes of exposure are via skin or inhalation.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Name *6-benzyladenine, 1.9% soluble concentrate (20 g/l)*

Fish Acute toxicity, 96h-LC₅₀ (*Oncorhynchus mykiss*): 28 mg/l (OECD 203)
Daphnia Acute toxicity, 48h-EC₅₀ (*Daphnia magna*): 17 mg/l (OECD 202)
Algae Acute toxicity, 72h (*Pseudokirchneriella supcapitata*): E_rC₅₀ = 9.76 mg/l
 E_bC₅₀ = 9.32 mg/l
 NOEC_{b&r} = 6.58 mg/l (OECD 201)
Bees Acute oral toxicity, 48h-LD₅₀ (*Apis mellifera*): >400 µg/bee (OECD 213)
 Acute contact toxicity, 48h-LC₅₀ (*Apis mellifera*): >400 µg/bee (OECD 214)

The following data are applicable to the ingredient(s) listed below:

Name **Active substance, 6-benzyladenine, technical grade**
Sediment dwelling midge Chronic toxicity, 28d-NOEC (*Chironomus riparius*) = 4.52 mg/l (OECD 219)
Aquatic plant Acute toxicity, 7d-EC₅₀frond (*Lemna gibba*): 0.31 mg/l
 7d-NOEC_{frond} = 0.035 mg/l
 7d-NOEC_{obs} < 0.010 mg/l (OECD 221)
Birds Acute toxicity, LD₅₀ (Bobwhite quail) : 1599 mg/kg (U.S. EPA Guideline FIFRA 71-1)
Bees Acute oral toxicity, 48h-LC₅₀ (*Apis mellifera*): > 58.73 µg/bee (OECD 213)
 Acute contact toxicity, 48h-LC₅₀ (*Apis mellifera*): > 100 µg/bee (OECD 214)
Earthworm Acute toxicity, 14d-LC₅₀ (*Eisenia foetida*): > 1000 mg/kg dry soil



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Soil micro organisms No significant impact on carbon mineralization or nitrogen transformation at up to 1 mg/kg dw soil (OECD 216, OECD 217)

12.2. Persistence and degradability

The following data are applicable to the ingredient(s) listed below:

Name *Active substance, 6-benzyladenine, technical grade*
Degradation Biotic Readily biodegradable. Naturally broken down in the environment. (OECD 301D)
Degradation Abiotic Hydrolytically stable at pH 4, 7, 9 (OECD 111)
Biological methods for sewage treatment
3h-EC₅₀ activated sludge: > 1,000 mg/l (OECD 209)

12.3. Bioaccumulative potential

The following data are applicable to the ingredient(s) listed below:

Name *Active substance, 6-benzyladenine, technical grade*
Bioaccumulation Partition coefficient n-octanol/water log Pow = 2.16 (OECD 107)
Bio Concentration Factor (BCF): no bioaccumulation study is necessary.

12.4. Mobility in soil

The following data are applicable to the ingredient(s) listed below:

Name *Active substance, 6-benzyladenine, technical grade*
Adsorption K_{oc} values: 282 to 1945 ml/g ;
Desorption K_{ocdes} values: 460 to 2897 ml/g
Therefore the substance showed a low to medium mobility depending on soil type (OECD 106).

12.5. Results of PBT and vPvB assessment

not required (no chemical safety report required).

12.6. Other adverse effects

no other known adverse effects on the environment.

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Substance and/or Mixture According to local regulations. For further advice contact manufacturer.
Contaminated packaging According to local regulations.

14. TRANSPORT INFORMATION

Land transport ADR/RID, Sea transport IMO/IMDG, Air transport ICAO-TI/IATA-DGR:

14.1. UN Number none

14.2. UN proper shipping name not relevant

14.3. Transport hazard class(es)

Land transport ADR/RID class:	not restricted	label:	not relevant
IMO/IMDG code class:	not restricted		
Air transport ICAO-TI/IATA-DGR class:	not restricted		

14.4. Packing group not relevant

14.5. Environmental hazards Marine pollutant: no

14.6. Special precautions for user EMS: not relevant
no other special precaution required.

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the ICB Code
not applicable

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

There is no specific regulation/legislation for this mixture.

15.2. Chemical safety assessment

No chemical safety assessment is required for this mixture.

16. OTHER INFORMATION

Method for evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 used for the purpose of classification:

Classification based on tests, and properties of the active substance.

Changes made to the previous version: section nos 2, 3, 11, 12, were modified to update the classification of the ingredients, remove any reference to directives 2001/59/EC or 1999/45/EC, add changes due to ATP4, and new data.

Full text of hazard statement(s) used in this document:

- H302: Harmful if swallowed.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H361d: Suspected of damaging the unborn child.
- H400: Very toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.

This information only concerns the above mentioned product for the specific use mentioned and is not valid for such product used in combination with any other product. The information is to our best knowledge correct and complete and is given in good faith as of the date indicated. It is the user's responsibility to use this information as appropriate for his own particular use of this product.