



SAFETY DATA SHEET

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Section 1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier:	Wetting Agent
Product name:	Resolute Wetting Agent
1.2 Relevant identified uses:	Amenity turf and horticultural surfactant
1.3 Details of the Supplier of SDS:	Velvit Ltd , Unit 2, The Marsh, Henstridge, Somerset BA8 0TF Tel: +44 (0) 1963 364788 Fax: +44 (0) 1963 364789
1.4 Emergency Telephone Number:	Tel: +44 (0) 1963 364788 - Normal Hours are 08:00-17:00 Monday-Friday Tel: +44 (0) 7801 644405 – Out of normal hours only

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification according to Regulation (EC) NO 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environmental.
Specific hazards	May cause temporary eye irritation. Prolonged contact may cause dryness of the skin.
Main symptoms	Symptoms include itching, burning, redness and tearing. Irritation of nose and throat. Exposed may experience vomiting, nausea and diarrhoea. Signs and symptoms of overexposure may include abdominal cramping, irregular heartbeats (arrhythmia), dehydration and hypertension.

2.2 Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms	None
Signal word	None
Hazard statements	The mixture does not meet the criteria for classification

Precautionary statements

Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplementary label information Not applicable

2.3 Other hazards Not assigned

Section 3. Composition/information on ingredients



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Substance	CAS Number	EC Number	Classification according to 67/548/EEC	Classification according to Regulation (EC) No 1278/2008 (CLP).	REACH Registration Number
Block polymers based on propylene oxide and ethylene oxide.	N/A	N/A	Not classified	Not classified	N/A

Section 4. First aid measures

4.1 Description of first aid measures

Inhalation:	Remove from exposure. In severe cases, or if recovery is not rapid or complete seek medical attention.
Skin Contact:	Rinse with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists seek medical attention.
Eye Contact:	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.
Ingestion:	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

General Information: None under normal use

4.3 Indication of any immediate medical attention and special treatment needed

General Information: None under normal use

Section 5. Fire-fighting measures

5.1 Extinguishing Media	Use CO ₂ or water spray. Do not smother with foam or sand.
5.2 Special hazards arising from the substance or mixture	May give off fumes if heated to decomposition. Do not breathe fumes
5.3 Advice for firefighters	Irritating substances may be emitted upon thermal combustion so self-contained breathing apparatus will be required.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Refer to protective measures listed in section 7 "Handling and Storage".
6.2 Environmental precautions	Avoid pollution of sewers and watercourses.
6.3 Methods and material for containment and cleaning up	Contain and sweep up spillages. Place unusable material in labelled containers or plastic bags for disposal. Wet residues are slippery; wash floor to remove traces.

Section 7. Handling and storage

7.1 Precautions for Safe Handling	Handle in accordance with good hygiene practice. Keep away from foodstuffs.
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7.2 Conditions for safe storage, including any incompatibilities

Keep dry. Packs should be stored closed to avoid moisture ingress. Avoid prolonged contact with metals.

7.3 Specific end uses

Amenity turf and horticulture surfactant

Section 8. Exposure controls/personal protection

8.1 Control Parameters

Occupational exposure limits:

N/A

8.2 Exposure Controls

Protective Equipment:

Dust mask with a minimum protection factor of 10 with HSE type approval.

Nitrile gloves may be worn for personal hygiene purposes.

Wear coverall and rubber boots when dealing with bulk spillages.

Face shield (BS2092 G1) if handling dust.

Appropriate Engineering Controls:

Ensure adequate ventilation in the work area

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Liquid

Physical state

Liquid

Form

Liquid

Colour

Colourless Liquid

Odour

None

Odour threshold

Not determined

pH value

Not determined

Melting point/freezing point

-12 °C

Initial boiling point and boiling range (°C)

Not determined

Flash point (°C)

>100 °C

Evaporation rate

Not applicable

Flammability (solid, gas)

Not applicable

Upper/lower flammability or explosive limits

Flammability limit – lower (%)

Not applicable

Flammability limit – upper (%)

Not applicable

Vapour Pressure

N/A

Vapour density

N/A

Relative density

1.04 g/cm³

Solubility

N/A

Partition coefficient (n-octanol/water)

Not available

Auto-ignition temperature (°C)

N/A

Decomposition temperature (°C)

N/A

Viscosity

Not available

Explosive properties

N/A

Oxidizing properties

N/A

9.2 Other information

Bulk density

Flammability

Not flammable

Section 10. Stability and reactivity



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10.1 Reactivity:	Product has long-term stability under normal conditions.
10.2 Chemical stability	Stable under normal conditions
10.3 Possibly hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	Strong oxidising agents
10.6 Hazardous decomposition products	No known hazardous decomposition products

Section 11. Toxicological information

General information	Occupation exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Inhalation	Vapour may irritate throat and respiratory system and cause coughing.
Skin contact	May cause irritation.
Eye contact	May cause irritation.
Symptoms	
11.1 Information on toxicological effects	
Acute toxicity	LD50/oral/rat: >2000 mg/kg
Skin corrosion/irritation	May cause irritation.
Serious eye damage/irritation	Product vapour may cause mechanical eye irritation.
Respiratory sensitisation	Not classified.
Skin sensitisation	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity- single exposure	Not classified.
Specific target organ toxicity – repeated exposure	Not classified.
Aspiration hazard	Not classified.
Mixture versus substance information	Not available
Other information	Chronic effects are not expected when this product is used as intended.

Section 12. Ecological information

12.1 Toxicity	None
12.2 Persistence and degradability	Biodegradable
12.3 Bioaccumulative potential	Not expected to bioaccumulate
Partition coefficient n-octanol/water (log Kow)	Not available
Bioconcentration factor (BCF)	Not available
12.4 Mobility in soil	Not available
12.5 Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6 Other adverse effects	Not available

Section 13. Disposal considerations

13.1 Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations



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Contaminated packaging Disposal methods/information

Offer rinsed packaging material to local recycling facilities.
Dispose in accordance with all applicable regulations. Larger volumes must be sent to an approved plant for destruction.

Section 14. Transport information

ADR

The product is not covered by international regulation on the transport of dangerous goods

RID

The product is not covered by international regulation on the transport of dangerous goods

ADN

The product is not covered by international regulation on the transport of dangerous goods

IATA

The product is not covered by international regulation on the transport of dangerous goods

IMDG

The product is not covered by international regulation on the transport of dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code This substance/mixture is not intended to be transported in bulk.

Section 15. Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I
Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II
Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I part 1 as amended
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.

Regulation (EC) No. 166/2006 Annex II pollutant Release and Transfer Registry
Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA
Not listed.

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation
Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work



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Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations

This product does not meet the criteria for classification according to Regulation (EC) 1272/2008 (CLP Regulation) and Directive 1999/45/EC and their amendments respectively. This safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006

National regulations

Not available

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out.

Section 16. Other information

List of abbreviations

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

PBT: Persistent, bioaccumulative and toxic.

vPvB: Very Persistent and very Bioaccumulative.

LD50: Lethal Dose, 50%.

EC50: Effective concentration, 50%

ECHA CHEM

References

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.

Full text of any statements or R-phrases and H-statements under sections 2 to 15

Training information

Follow training instructions when handling this material.

Disclaimer

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet (SDS) and was prepared pursuant to Government regulation(s) that identify specific types of information to be provided. This SDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. Additional information may be needed to evaluate other uses of the product, including use of the product in combination with any materials or in any processes other than those specifically referenced. Information provided herein with respect to any hazards that may be associated with the product is not meant to suggest that use of the product in a given application will necessarily result in any exposure or risk to workers or the general public. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product. Purchasers and users



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assume all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations. Purchasers and users of the product specifically should advise all of their employees, agents, contractors and customers who will use the product of this (M)SDS.