GREEN VALLEY LABORATORY

Safety Data Sheet

SECTION 1 - Identification

1.1 Product identifier

Product trade name	MONTANOV 68 MB
EC number	927-870-2
REACH Product name	acetalization product between glucose and C16/18(even numbered) alcohol

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

Material uses	Emulsifying agent. Manufacture of cosmetics. Non ionic surfactant.

1.3 Details of the supplier of the Safety Data Sheet

Supplier Name	Green Valley Laboratory
Address	435 Hartford Pike, Killingly, CT 06241, USA
Contact	Help@dauphineorganics.com
Phone	n/a

1.4 Emergency telephone number

Emergency Phone No.	CHEMTREC Emergency Call Center +1 800-424-9300 (US & Canada) - +1 703-527-3887 (Europe)

SECTION 2 - Hazard Identification

2.1 Classification of the substance or mixture

Product definition	UVCB

Classification according to UK CLP/GHS

Not classified.

The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Precautionary statements - Prevention	Not applicable.
Precautionary statements - Response	Not applicable.
Precautionary statements - Storage	Not applicable.
Precautionary statements - Disposal	Not applicable.
Supplemental label elements	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:

PBT	P	B	T	vPvB	vP	vB
No	No	No	No	No	No	No

Other hazards which do not result in classification	None known.

ADDITIONAL INFORMATION

Storage	STORE UNDER COVER. Keep away from heat.

SECTION 3 - Composition / Information on Ingredients

The information presented in this section does not serve as specifications.

3.1 Substances	UVCB
INCI Name	CETEARYL ALCOHOL AND CETEARYL GLUCOSIDE

Product/ingredient name	Identifiers	%	Classification	Type
acetalization product between glucose and C16/18(even numbered) alcohol	EC: 927-870-2	80 - 100	Not classified. See Section 16 for the full text of the H statements declared above.	[*]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type	[*] Substance

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4 - First Aid Measures

4.1 Description of first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.

SECTION 5 - Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	No specific fire or explosion hazard.
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide, carbon monoxide

5.3 Advice for firefighters

Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Small spill	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7 - Handling and Storage

7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	Do not store above the following temperature: 40°C (104°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. STORE UNDER COVER. Keep away from heat.

7.3 Specific end use(s)

Recommendations	Not available.
Industrial sector specific solutions	Not available.

SECTION 8 - Exposure Controls / Personal Protection

8.1 Control parameters

Occupational exposure limits	No exposure limit value known.
Biological exposure indices	No exposure indices known.
Recommended monitoring procedures	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
acetalization product between glucose and C16/18(even numbered) alcohol	DNEL	Long term Dermal	4,76 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	33,6 mg/m³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
acetalization product between glucose and C16/18(even numbered) alcohol	Fresh water	0,1 mg/l	Assessment Factors
	Marine	0,01 mg/l	Assessment Factors
	Fresh water sediment	3710 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	371 mg/kg dwt	Equilibrium Partitioning
	Sewage Treatment Plant	2 mg/l	Assessment Factors
	Soil	10 mg/kg dwt	Assessment Factors
	Secondary Poisoning	111 mg/kg	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection - Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: nitrile rubber, fluor rubber, PVC.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9 - Physical and Chemical Properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

The information presented in this section does not serve as specifications.

9.1 Information on basic physical and chemical properties

Appearance - Physical state	Solid. [Pellets]
Colour	White.
Odour	Characteristic.
Melting point/freezing point	61 to 65°C
Initial boiling point and boiling range	300 to 355°C
Flammability of the product	Non-flammable.
Flash point	Closed cup: 195,5°C [ASTM D 93.]
pH	5,5 to 7,5 [Conc. (% w/w): 5%]

Solubility(ies):

Media	Result

cold water	Not soluble

Solubility in water	<0,00013 g/l [OECD 105]

Dispersibility properties:

Media	Result
hot water	Dispersible

Partition coefficient: n-octanol/water	7,7
Vapour pressure	0,0000012 kPa
Relative density	0,89
Oxidising properties	None.

Particle characteristics

Median particle size	Not available.
Granulometry	2.8 - 4 mm : >96% [OECD 110]

SECTION 10 - Stability and Reactivity

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	The product is stable.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	No specific data.
10.5 Incompatible materials	No specific data.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 - Toxicological Information

Information on toxicological effects

Acute toxicity

Conclusion/Summary	Not classified as dangerous

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
acetalization product between glucose and C16/18 (even numbered) alcohol	2500	2500	N/A	N/A	N/A

Irritation/Corrosion

Conclusion/Summary - Skin	Non-irritating to the skin.
Conclusion/Summary - Eyes	Non-irritating to the eyes.

Sensitisation

Conclusion/Summary - Skin	Non-sensitiser to skin.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
acetalization product between glucose and C16/18 (even numbered) alcohol	OCDE 471	Experiment: In vitro Subject: Bacteria	Negative
	OCDE 476	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OCDE 473	Experiment: In vitro Subject: Mammalian-Human	Negative

Conclusion/Summary	Not mutagenic in a standard battery of genetic toxicological tests.

Carcinogenicity

Conclusion/Summary	Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Test	Dose	Exposure
acetalization product between glucose and C16/18 (even numbered) alcohol	Negative	Negative	Negative	OCDE 414 & OCDE 407	Oral: 1000 mg/kg bw/day	-

Conclusion/Summary	No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary	Not available.

Specific target organ toxicity (single exposure)	Not available.
Specific target organ toxicity (repeated exposure)	Not available.
Aspiration hazard	Not available.

Potential acute health effects

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Potential chronic health effects

Product/ingredient name	Result type	Method	Result	Exposure
acetalization product between glucose and C16/18 (even numbered) alcohol	Sub-chronic NOAEL Oral	OCDE 407	1000 mg/kg bw/day	28 days
	Sub-chronic NOAEL Oral	OCDE 408	1000 mg/kg bw/day	90 days

Conclusion/Summary	Not classified as dangerous
General	No known significant effects or critical hazards.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

SECTION 12 - Ecological Information

12.1 Toxicity

Product/ingredient name	Result	Test	Species	Exposure
acetalization product between glucose and C16/18(even numbered) alcohol	Acute EC50 >100 mg/l	OCDE 201	Algae - Desmodesmus subspicatus	72 hours
	Acute EC50 >100 mg/l Fresh water	OCDE 202	Daphnia - Daphnia magna	48 hours

	Acute LC50 >100 mg/l Fresh water	OCDE 203	Fish - Danio rerio	96 hours
	Chronic NOEC 1000 mg/kg	OECD 222	Earthworm - Eisenia fetida	4 weeks
	Chronic NOEC 1000 mg/kg dw	OCDE 216	Micro-organism	28 days

Conclusion/Summary	Not classified as dangerous

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
acetalization product between glucose and C16/18 (even numbered) alcohol	OCDE 301B	97,4 % - Readily - 28 days	20 mg/l	Activated sludge

Conclusion/Summary	This product is readily biodegradable.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetalization product between glucose and C16/18 (even numbered) alcohol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
acetalization product between glucose and C16/18 (even numbered) alcohol	7,7	-	high

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	>5,63

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
acetalization product between glucose and C16/18 (even numbered) alcohol	No	No	No	No	No	No	No

12.6 Other adverse effects	No known significant effects or critical hazards.

SECTION 13 - Disposal Considerations

13.1 Waste treatment methods

Product

Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 - Transport Information

	ADR/RID	ADN	IMDG	IATA

14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	Not available.

SECTION 15 - Regulatory Information

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

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation - Annex XIV	None of the components are listed.
Substances of very high concern	None of the components are listed.
Ozone depleting substances	Not listed.
Prior Informed Consent (PIC)	Not listed.
Persistent Organic Pollutants	Not listed.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions (integrated pollution prevention and control) - Air	Not listed
Industrial emissions (integrated pollution prevention and control) - Water	Not listed

Not listed.

15.2 Chemical safety assessment	Not applicable.

SECTION 16 - Other Information

Abbreviations and acronyms	ATE = Acute Toxicity Estimate
	GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = GB CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification	Not classified.
Full text of abbreviated H statements	Not applicable.
Full text of classifications	Not applicable.

DISCLAIMER

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