

# **SAFETY DATA SHEET**

# **1. PRODUCT AND COMPANY IDENTIFICATION:**

**PRODUCT CODE** 

**PRODUCT NAME** 

**SUPPLIER** 

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SANDALORE(SANDASWEET)

# FOR EMERGENCIES CALL CHEMTREC:

# 800-424-9300 (24-HOURS)

# 2. HAZARD IDENTIFICATION:

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation Serious eye damage/eye irritation Sensitization, skin	Category 3 Category 2A Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard Hazardous to the aquatic environment, long-term hazard	Category 2 Category 2
Label elements		

A0273



Signal word Warning

# Hazard statement

H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement Prevention	
P261	Avoid breathing mist or vapor.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P280	Wear eye/face protection.
Response	
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

# Storage

Store away from incompatible materials.

# Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

# Hazard(s) not otherwise classified (HNOC)

None known.

# **Supplemental information** None.

# 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Substances			
Chemical name	Common name and synonyms	CAS number	%
5- (2,2,3-TRIMETHYL - 3	ALPHA, BETA,2,2,3- PENTAMETHYL	65113-99-7	100
CYCLOPENTENYL) -3-METHYL	CYCLOPENT-3-EN-1 -BUTANOL		
PENTAN-2-OL	3- methyl-5- (2,2,3-trimethyl- 1-cyclopent		
	3-enyl)pentan-2-ol		
	pentamethyl cyclopent-3-ene butanol		

# 4. FIRST-AID GUIDE:

# Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

# Skin contact

Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

#### Eye contact

Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

#### Ingestion

Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

# Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.

# Indication of immediate medical attention and special treatment needed

Not available.

# **General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. FIRE-FIGHTING GUIDE:

#### Suitable extinguishing media

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

#### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

# Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

# Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.

# Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

#### Specific methods

Use water spray to cool unopened containers.

# **General fire hazards**

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

# 6. ACCIDENTAL RELEASE GUIDE:

# Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

# 7. HANDLING AND STORAGE:

#### **Precautions for safe handling**

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

# Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

# 8. EXPOSURE AND PERSONAL PROTECTION:

**Occupational exposure limits** No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Use explosion-proof ventilation equipment to stay below exposure limits.

Individual protection measures, such as personal protective equipment Eye/face protection

Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection Hand protection Chemical resistant gloves.

#### Other

Use of an impervious apron is recommended.

#### **Respiratory protection**

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

#### **Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

#### General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Refer to Spec Sheet
Physical state	Liquid.
Form	Liquid.
Color	Refer to Spec Sheet

Odor	Characteristic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	< -58 °F (< -50 °C)
Initial boiling point and boiling range	203 °F (95 °C) at 0.5 mmHg
Flash point	> 200.0 °F (> 93.3 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive	
limits	
Flammability limit – lower (%)	Not available.
Flammability limit – upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0 mm Hg at 20 °C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	897.97 kg/m <sup>3</sup>
Flammability class	Combustible IIIB estimated
Molecular formula	C14H26O
Molecular weight	210.36 g/mol
Specific gravity	0.89 at 25 °C

# **10. STABILITY AND REACTIVITY:**

#### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

# **Chemical stability**

Material is stable under normal conditions.

# **Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use. **Conditions to avoid** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

# **Incompatible materials**

Strong oxidizing agents.

#### Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated.

# **11. TOXICOLOGICAL INFORMATION:**

#### Information on likely routes of exposure Inhalation

No adverse effects due to inhalation are expected.

#### Skin contact

Causes mild skin irritation. May cause an allergic skin reaction.

#### Eye contact

Causes serious eye irritation. Causes mild eye irritation.

# Ingestion

Expected to be a low ingestion hazard.

#### Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation. May cause an allergic skin reaction. Dermatitis. Rash.

# Information on toxicological effects

#### Acute toxicity

May cause an allergic skin reaction.

Species	Test Results		
5- (2,2,3-TRIMETHYL - 3 - CYCLOPENTENYL) -3-METHYL PENTAN-2-OL (CAS 65113-99-7)			
Rat	6700 mg/kg		
	CYCLOPENTENYL) -3		

\* Estimates for product may be based on additional component data not shown.

#### Skin corrosion/irritation

Causes mild skin irritation.

#### Serious eye damage/eye irritation

Species: guinea pig No skin irritation Causes serious eye irritation. Species: rabbit No eye irritation

# Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

#### Skin sensitization

May cause an allergic skin reaction. HRIPT Human Result: Not sensitizing at 10 % in Dimethyl phthalate Maximisation Test guinea pig Result: Not sensitizing Phototoxicity guinea pig Result: negative

# Germ cell mutagenicity

Genotoxicity in vitro : Ames test negative Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Chromosome aberration test in vitro Human lymphocytes negative Method: Mutagenicity (in vitro mammalian cytogenetic test) in vitro assay negative Method: In vitro gene mutation study in mammalian cells

#### Carcinogenicity

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed. Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

# Specific target organ toxicity single exposure

Not classified.

# Specific target organ toxicity repeated exposure

Not classified.

#### **Aspiration hazard**

Not an aspiration hazard.

# **12. ECOLOGICAL INFORMATION:**

#### Ecotoxicity

Toxic to aquatic life with long lasting effects.

Product		Species	Test Results
5- (2,2,3-TRI	5- (2,2,3-TRIMETHYL - 3 - CYCLOPENTENYL) -3-METHYL PENTAN-2-OL (CAS 65113-99-7)		
Acute Other	EC50	Pseudokirchnerella subcapitata	<ul> <li>&gt; 17 mg/l, 72 hours Method: OECD Test</li> <li>Guideline 201</li> <li>&gt; 17 mg/l, 96 hours Method: OECD Test</li> </ul>

			Guideline 201 8.2 mg/l, 96 hours Method: OECD Test Guideline 201 7.1 mg/l, 72 hours Method: OECD Test Guideline 201
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	1.1 mg/l, 48 hours Method: OECD Test
			Guideline 202
Fish	LC50	Pimephales promelas	2.3 mg/l, 96 hours Method: OECD Test
			Guideline 203

\* Estimates for product may be based on additional component data not shown.

# Persistence and degradability

Biodegradability : Result: Readily biodegradable 78 % Method: OECD Test Guideline 301 F

# **Bioaccumulative potential**

No data available.

# Mobility in soil

No data available.

#### **Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# **13. DISPOSAL RECOMMENDATIONS:**

#### **Disposal instructions**

Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Local disposal regulations

Dispose in accordance with all applicable regulations.

#### Hazardous waste code

Not established.

#### Waste from residues / unused products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

# **Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

# **14. TRANSPORTATION INFORMATION:**

ADN	2002
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-
	(2,2,3-TRIMETHYL - 3 CYCLOPENTENYL) -3-METHYL PENTAN-2-OL)
Transport hazard class(es)	9
Subsidiary class(es)	
Packing group	III
Environmental hazards	Yes
Labels required	9
ADR	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-
	(2,2,3-TRIMETHYL - 3 - CYCLOPENTENYL) -3-METHYL PENTAN-2-OL)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	Yes
Tunnel restriction code	Ε
Labels required	9
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
RID	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-
	(2,2,3-TRIMETHYL - 3 - CYCLOPENTENYL) -3-METHYL PENTAN-2-OL)
Transport hazard class(es)	9
Subsidiary class(es)	
Packing group	III
Environmental hazards	Yes
Labels required	9
DOT	
BULK	
UN number	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-
	(2,2,3-TRIMETHYL - 3 CYCLOPENTENYL) -3-METHYL PENTAN-2-OL)
Hazard class	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions	Read safety instructions, SDS and emergency procedures before handling.

Special provisions	8, 146, 335, IB3, T4, TP1, TP29
Packaging exceptions	155
Packaging non bulk	203
Packaging bulk	241
DOT	
NON-BULK	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (5-
	(2,2,3-TRIMETHYL - 3 CYCLOPENTENYL) -3-METHYL PENTAN-2-OL)
Transport hazard class(es)	9
Subsidiary class(es)	
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Labels required	9
EmS	F-A, S-F
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according	Not applicable.
to Annex II of MARPOL	
73/78 and the IBC Code	
ADN; ADR; DOT BULK;	
IMDG; RID	
	9
Marine pollutant	
	XV.

# **15. REGULATORY INFORMATION:**

# **US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed.

#### SARA 304 Emergency release notification

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)** Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard – No

**SARA 302 Extremely hazardous substance** Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting) Not regulated.

**Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)** Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations US. Massachusetts RTK - Substance List Not regulated.

**US. New Jersey Worker and Community Right-to-Know Act** Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law** Not listed.

# **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

# US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

#### **International Inventories Country**(s) or region On inventory (yes/no)\* **Inventory name** Australia Australian Inventory of Chemical Yes Substances (AICS) Domestic Substances List (DSL) Canada Yes Non-Domestic Substances List Canada No (NDSL) Inventory of Existing Chemical China Yes Substances in China (IECSC) European Inventory of Existing Yes Europe Commercial Chemical Substances (EINECS) European List of Notified Chemical No Europe Substances (ELINCS) Japan Inventory of Existing and New No Chemical Substances (ENCS) Existing Chemicals List (ECL) Yes Korea New Zealand New Zealand Inventory Yes Philippines Philippine Inventory of Chemicals Yes and Chemical Substances (PICCS) United States & Puerto Rico Substances Control Act Yes Toxic (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# **16. OTHER INFORMATION:**

# **HMIS® ratings** Health: 2

Flammability: 1 Physical hazard: 0

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this

product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

**Prepared By:** M&U International LLC

**REVISED:** 02/17/2015