

SAFETY DATA SHEET

Preparation Date 26-11-2014 Revision Date 11-11-2015 Revision Number 4.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product code 51548

Product name CLEARWAY 6S

Pure substance/mixture Mixture

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

Recommended use De-icing

Uses advised against -

1.3. Details of the supplier of the safety data sheet

Manufacturer

Taminco Finland Oy a subsidiary of Eastman Chemical Company Typpitie 1 FI-90620 Oulu Finland T: +358 207 108 300

F: +358 207 108 300 F: +358 207 108 301

For further information, please contact

E-mail address emnmsds@eastman.com

1.4. Emergency telephone number

(+32) 9 254 10 36

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Not Hazardous

2.2. Label Elements
Product Identifier
Not Hazardous

2.3. Other Hazards

Inhalation of dust in high concentration may cause irritation of respiratory system

Skin Contact Repeated or prolonged exposure May cause slight irritation

Eve contact

May cause slight irritation

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 MIXTURES

No Hazardous components According to EC Regulation 1907/2006/EC

Full text of H- and EUH-phrases: see section 16

Additional Information

Contains: Sodium acetate trihydrate

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in

attendance.

Inhalation Remove to fresh air. Keep patient warm and at rest. Consult a physician if necessary.

Skin contact Flush with water.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

eye irritation persists, consult a specialist.

Ingestion Rinse mouth with water. Do not induce vomiting. Obtain medical attention.

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

Symptoms May cause skin and eye irritation

May cause irritation of respiratory tract

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

Notes to physician Treat symptomatically

SECTION 5: Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide (CO2), water spray

Extinguishing media which must not be used for safety reasons

No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapours.

Hazardous combustion products Acetic acid

Sodium oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment. Avoid dust formation.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Try to prevent the material from entering drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Avoid dust formation. After

cleaning, flush away traces with water. Flush with plenty of water.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling

Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Do not breathe dust.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed in a dry and well-ventilated place. Incompatible with strong acids and oxidizing agents.

Packaging material Store in original container.

7.3. Specific end use(s)

Specific use(s)

De-icing

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration

No information available.

(PNEC)

8.2. Exposure controls

Engineering measures Ensure adequate ventilation.

Personal protective equipment

Eye protection goggles.

Hand protection PVC -. rubber gloves. The selected protective gloves have to satisfy the specifications of

EU Directive 89/689/EEC and the standard EN 374 derived from it. The suitability for a specific workplace should be discussed with the producers of the protective gloves. The exact break through time can be obtained from the protective glove producer and this has to

be observed.

Skin and body protection

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment. Respirator with a

particle filter (EN 143).

Suitable protective clothing.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State solid Appearance Granules

AppearanceGranulesOdorodorless

Colour White

Property Values Remarks • Method

pH 8 - 11 (10% solution)

Melting point/freezing point

Boiling point/range Flash point Not applicable Evaporation rate no data available -

Flammability (solid, gas) no data available

Flammability Limit in Air
Upper flammability limit:
Lower flammability limit:

Vapor Pressure no data available - Vapor Density no data available -

Specific Gravity
no data available

Water solubility completely soluble Hygroscopic

Partition coefficient

Autoignition temperature no data available Decomposition temperature 300 - 400 °C Kinematic viscosity no data available -

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Dissociation constantNot applicable-Surface tensionNot applicable-

Oxidising properties The substance or mixture is not classified as oxidizing

9.2. Other information

Bulk density 600 - 700 kg/m³

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

See Incompatible Materials

10.2. Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact no data available. Sensitivity to Static Discharge no data available.

10.3. Possibility of hazardous reactions

polymerization

Hazardous polymerization does not occur.

Possibility of hazardous reactions

None under normal use conditions.

10.4. Conditions to avoid

elevated temperature. Avoid moisture.

10.5. Incompatible materials

Strong acids and oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition. 300 - 400 °C. Acetic acid. Sodium oxides. Decomposes by reaction with strong acids. Acetic acid.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

LD50/oral/rat = no data available
LD50/dermal/rat = No data available
LC50/inhalation/4h/rat = no data available
Eye irritation Not classified
Skin irritation Not classified

sensitisation No information available

Human experience

Human experience Inhalation may provoke the following symptoms:

Irritating to respiratory system

Cough Skin

Prolonged or repeated exposure may cause:

Skin irritation

Eyes

May cause slight irritation

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product Information

 LC50 / 48 hour / fish
 8900 mg/l

 EC50/48h/Daphnia magna =
 11670 mg/L

 EC50/72h/algae =
 85600 mg/l

 Toxicity to bacteria EC50 / 16
 72600 mg/l

Hour

12.2. Persistence and degradability

Readily biodegradable.

Biochemical oxygen demand (BOD). 320 mg/g (5 d).

12.3. Bioaccumulative potential

Not likely to bioaccumulate

12.4. Mobility in soil

Soluble in water Hygroscopic Volatility: No

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT) This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.6. Other adverse effects

None known

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations

Waste codes should be assigned by the user based on the application for which the product

was used

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

not regulated 14.1 UN-No 14.2 Proper shipping name Not regulated 14.3 Hazard Class not regulated 14.4 Packing group not regulated

14.5 Marine pollutant No **Environmental hazard** No

14.6 Special Provisions Not relevant 14.7 Transport in bulk according to not applicable

Annex II of MARPOL 73/78 and the

IBC Code

RID

14.1 UN-No	not regulated
14.2 Proper shipping name	not regulated
14.3 Hazard Class	not regulated
14.4 Packing group	not regulated
14.5 Environmental hazard	No

14.6 Special Provisions Not relevant

ADR

14.1 UN-No	not regulated
14.2 Proper shipping name	not regulated
14.3 Hazard Class	not regulated
14.4 Packing group	not regulated
14.5 Environmental hazard	No

14.5 Environmental hazard

14.6 Special Provisions Not relevant

ADN

14.1 UN-No	not regulated
14.2 Proper shipping name	not regulated
14.3 Hazard Class	not regulated
14.4 Packing group	not regulated
14.5 Environmental hazard	No

14.5 Environmental hazard

14.6 Special Provisions Not relevant

ICAO/IATA

14.1 UN-No	not regulated
14.2 Proper shipping name	Not regulated
14.3 Hazard Class	not regulated
14.4 Packing group	not regulated
	

14.5 Environmental hazard Νo

14.6 Special Provisions Not relevant

Section 15: REGULATORY INFORMATION

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

Water hazard class (WGK) WGK 1

European Union

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

International Inventories

TSCA Does not Comply **DSL/NDSL** Does not Comply

Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC**

KECL Does not Comply

PICCS Complies **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

No data is available on the product itself

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

- Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL (Short Term Exposure Limit) STEL

Maximum limit value Skin designation Ceiling

26-11-2014 **Preparation Date**

Revision Date 11-11-2015

Reason for revision not applicable.

Training Advice Provide adequate information, instruction and training for operators

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet