

US - OSHA SAFETY DATA SHEET

Issue Date 30-Jan-2019 Revision Date 22-Feb-2021 Version 3

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

Product identifier

Product Name US Klorkleen 2 (Dilution 0.5 -5550 ppm)

Other means of identification

Synonyms None known.

Recommended use of the chemical and restrictions on use

Recommended UseAs indicated on US EPA master label, 71847-7, see enclosed. **Uses advised against**As indicated on US EPA master label, 71847-7, see enclosed.

Details of the supplier of the safety data sheet

Manufacturer Address

Medentech Ltd. Clonard Road Wexford, Ireland

Emergency telephone number

Company Phone Number +353 53 9117900

24 Hour Emergency Phone Number POISON CONTROL CENTER AT 1-800-222-1222

2. HAZARDS IDENTIFICATION

Classification

Health Hazards

Not classified.

Physical Hazards

Not classified

OSHA Regulatory Status

This product is not considered hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200, Revision 3).

Label elements

Emergency Overview

Normal precautions common to safe manufacturing practice should be followed in handling and storage.

Appearance Colorless liquid Physical state Liquid Odor Slight chlorine

Hazards not otherwise classified (HNOC)

Not available.

Other information

Harmful to aquatic life with long lasting effects Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard/Globally Harmonized System of Classification and Labelling of Chemicals (GHS); (29 CFR 1910.1200; Revision 3).

Synonyms None known.

Chemical name	CAS No	Weight-%
Sodium-dichloro-s-triazinetrione	2893-78-9	0.000025-0.28
Adipic Acid	124-04-9	0.000012-0.13
Sodium Bicorbonate, USP	144-55-8	0.00001-0.12
Sodium carbonate	497-19-8	0.000002-0.02
Sodium dodecylbenzenesulfonate	25155-30-0	0.000001-0.01
Water	7732-18-5	> 99

4. FIRST AID MEASURES

Description of first aid measures

General Advice Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact In case of eye contact to tablet product, immediately flush eyes with fresh water for at least

15 minutes while holding the eyelids open. Remove contact lenses if worn. Get medical

attention if irritation persists.

Skin Contact In case of contact to tablet product, remove contaminated clothing. Immediately flush skin

with copious amounts of water for at least 15 minutes. Obtain medical attention if skin

reaction occurs.

In case of inhaling dusts from broken tablets, immediately move exposed subject to fresh

air. If not breathing, provide artificial respiration. If breathing is difficult, administer oxygen.

Seek medical attention immediately.

In case of accidental ingestion of tablet product, wash out mouth with copious amounts of

water. Seek medical attention immediately. Do not induce vomiting unless directed by

medical personnel. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms Not available.

Indication of any immediate medical attention and special treatment needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media None known.

Specific hazards arising from the chemical

Not available.

Hazardous Combustion Products Not available.

Explosion data

Sensitivity to Mechanical Impact Not available.

Sensitivity to Static Discharge Not available.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal

protective equipment as specified in Section 8, and follow handling guidance appropriate for the compound (see Section 7). Isolate hazard area. Keep unnecessary and unprotected

personnel from entering.

Environmental precautions

Environmental Precautions See Section 12 for additional ecological information. Prevent entry into waterways, sewers,

surface drainage systems or wildlife water supply.

Methods and material for containment and cleaning up

Methods for Containment Absorb with DRY earth, DRY sand or other non-combustible material followed with plastic

sheet to minimize spreading or contact with rain.

Methods for Cleaning UpCollect spill with absorbent material. Clean spill area thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid generation of

dust/mists. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Provide appropriate exhaust ventilation at places where vapor is formed. Do not eat, drink, or smoke when using this product. Use personal

protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, contains the following hazardous material(s) with occupational

exposure limits established by the region-specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Adipic Acid 124-04-9	TWA: 5 mg/m ³	-	-

Appropriate engineering controls

Engineering Controls The health hazard risks of handling this material are dependent on factors, such as physical

form and quantity. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. Good general ventilation should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels as low as reasonably achievable.

Individual protection measures, such as personal protective equipment

Eye/Face Protection In laboratory, medical or industrial settings, safety glasses with side shields are highly

recommended. The use of goggles or full-face protection may be required depending on the industrial exposure setting. Contact a health and safety professional for specific information.

Skin and Body Protection In laboratory, medical or industrial settings, gloves and lab coats are recommended. The

use of additional personal protective equipment such as shoe coverings, gauntlets, hoods or head coverings may be necessary. Contact a health and safety professional for specific

information.

Not required for normal handling of packed product. Respirators/ PAPR may be required for Respiratory Protection

> certain laboratory and manufacturing tasks if engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (where the exposure limits have not been established). Workplace risk assessments should be completed before specifying and implementing respirator usage. All respirators must conform to specifications for efficiency and performance indicated by OSHA Standard

29 CFR 1910.134.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Colorless liquid Odor Slight chlorine Color Colorless **Odor Threshold** Not available.

Property Values Remarks

Not available.

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Melting Point/Freezing Point Not available. **Boiling Point/Boiling Range** Not available. **Flash Point** Not available. **Evaporation Rate** Not available.

Flammability (solid, gas) Flammability Limit in

Air

Upper Flammability Limit: Not available. **Lower Flammability Limit:** Not available. **Vapor Pressure** Not available. **Vapor Density** Not available. **Specific Gravity** Not available. completely soluble **Water Solubility** Not available.

Solubility in Other Solvents

Partition Coefficient

O **Autoignition Temperature** Not available. 225-250°C Hyphen **Kinematic Viscosity** Not available. **Dvnamic Viscosity** Not available. **Explosive Properties** Not available. **Oxidizing Properties** Not available.

Other information

Softening Point
Molecular Weight
VOC Content (%)
Density

Not available.
Not available.
1.0

Bulk Density Not available.

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions

None under normal use conditions.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to avoid

None under recommended storage and handling conditions (see section 7).

Incompatible materials

Not available.

Hazardous decomposition products

None under normal use conditions.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Intravenous LD50
Sodium-dichloro-s-triazinetrione 2893-78-9	= 1823 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	0.27 - 1.17 mg/L (Rat) 4 h	-
Adipic Acid 124-04-9	> 11000 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	> 7700 mg/m³ (Rat) 4 h	-
Sodium Bicorbonate, USP 144-55-8	= 4220 mg/kg (Rat)	-	-	-
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	-	-
Sodium dodecylbenzenesulfonate 25155-30-0	= 500 mg/kg (Rat)	-	-	-
Water 7732-18-5	> 90 mL/kg (Rat)	-	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Not available.

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

Skin Corrosion/Irritation Not a skin irritant.

Serious Eye Damage/Eye Irritation Not irritating to eyes.

Sensitization Not a potential sensitizer.

Germ Cell Mutagenicity

This product does not contain any ingredient that is tested positive for genotoxicity by Ames

tests in 5 salmonella strains and 1 E. coli strain with or without rat microsomal activation.

Carcinogenicity This product is not listed by ACGIH, IARC, NTP or USOSHA.

Reproductive ToxicityThis product does not contain any known or suspected reproductive hazards.

Teratogenicity This product does not contain any known or suspected developmental hazards.

STOT - Single Exposure Not classified.

STOT - Repeated Exposure Not classified.

Aspiration Hazard Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium-dichloro-s-triazinetri one 2893-78-9	-	0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static 0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.29: 96 h Oncorhynchus mykiss mg/L LC50 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 tatic	-	0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50
Adipic Acid 124-04-9	31.3: 72 h Desmodesmus subspicatus mg/L EC50 26.6: 96 h Desmodesmus subspicatus mg/L EC50	97: 96 h Pimephales promelas mg/L LC50 static	-	85.7: 48 h Daphnia magna mg/L EC50
Sodium Bicorbonate, USP 144-55-8	-	8250 - 9000: 96 h Lepomis macrochirus mg/L LC50 static	-	2350: 48 h Daphnia magna mg/L EC50
Sodium carbonate 497-19-8	-	310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static	-	265: 48 h Daphnia magna mg/L EC50
Sodium dodecylbenzenesulfonate 25155-30-0	-	10.8: 96 h Oncorhynchus mykiss mg/L LC50 static	-	-

Persistence and degradability

The product is biodegradable.

Bioaccumulation

The product does not bioaccumulate.

Mobility

Not available.

Chemical name	Partition coefficient
Adipic Acid 124-04-9	0.081

Other adverse effects

Not available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

regulations.

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

regulations.

California Hazardous Waste Codes Not applicable.

This product contains the following substance that are listed with the State of California as a hazardous waste

The product contains the fellowing cubotaines that are noted with the state of camornia as a nazarasas waste.		
Chemical name California Hazardous Waste Status		
Sodium carbonate 497-19-8	Corrosive	

14. TRANSPORT INFORMATION

DOT Not Applicable.

IATA Not Applicable.

IMDG Not Applicable.

ADR Not Applicable.

15. REGULATORY INFORMATION

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazardNoChronic Health HazardNoFire hazardNoSudden Release of Pressure HazardNoReactive HazardNo

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This product is not listed by CERCLA, but as supplied, contains the following substance(s) regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Adipic Acid	5000 lb		RQ 5000 lb final RQ
124-04-9	3000 lb	-	RQ 2270 kg final RQ
Sodium dodecylbenzenesulfonate	1000 lb		RQ 1000 lb final RQ
25155-30-0	1000 lb	•	RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product contains the following substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium-dichloro-s-triazinetrione 2893-78-9	X		X
Adipic Acid 124-04-9	X		X
Sodium dodecylbenzenesulfonate 25155-30-0	X		X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = Minimal Hazard1 = Slight Hazard2 = Moderate Hazard3 = Serious Hazard

4 = Severe Hazard

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Revision Note (M)SDS sections updated

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 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
