



VELTEK ASSOCIATES, INC.

Cage2Wash® 2

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 10/5/2011 Revision date: 10/27/2023 Supersedes: 01/26/2017 Version: 3.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Cage2Wash® 2
Product code : SDS VEL-008

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Enhanced alkaline detergent.
Product for industrial use only

1.3. Supplier

Veltek Associates, Inc.
15 Lee Blvd
Malvern, PA 19355-1234 USA
Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
E-mail: vai@sterile.com

In Canada distributed by:
Canada Clean Room (CCR)
20 Cope Dr.
Kanata, ON K2M 2V8, Canada
Telephone: 1-(888)-595-8070

Fisher Scientific
112 Colonnade Road
Ottawa, Ontario, Canada K2E 7L6
Telephone: 1-800-234-7437

VWR International
2360 Argentia Road
Mississauga, Ontario L5N 5Z7
Telephone: 1-800-932-5000

1.4. Emergency telephone number

Emergency number : CARECHEM 24: 1-215-207-0061
1-866-928-0789 (toll free USA)
Canada: 1-800-579-7421 (toll free)
Mexico: +52-55-5004-8763

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Full text of H-statements: see section 16		

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2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H315 - Causes skin irritation.

: H318 - Causes serious eye damage.

Precautionary statements (GHS US)

: P264 - Wash hands thoroughly after handling.

: P280 - Wear eye protection, face protection, Long-sleeved protective clothing, protective gloves.

: P302+P352 - IF ON SKIN: Wash with plenty of soap and 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.

: P310 - Immediately call a doctor.

: P332+P313 - If skin irritation occurs: Get medical advice/attention.

: P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
tetrasodium ethylene diamine tetraacetate	CAS-No.: 64-02-8	1 - 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Dam. 1, H318 STOT RE 2, H373
Disodium metasilicate	CAS-No.: 6834-92-0	< 1	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Potassium alkanoate	CAS-No.: -----	< 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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First-aid measures after inhalation	: Not required for normal conditions of use.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water (for at least 15 minutes). Ensure that folded skin of eyelids is thoroughly washed with water. Obtain immediate medical attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Do not give an unconscious person anything to drink. Rinse mouth. If symptoms develop, obtain medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and symptoms	: Causes serious eye damage. Ingestion may cause irritation of the gastrointestinal tract.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Ingestion may cause irritation of the gastrointestinal tract.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

5.2. Specific hazards arising from the chemical

Fire hazard	: Not flammable.
Hazardous decomposition products in case of fire	: Nitrogen oxides. Sodium oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Keep upwind. Exercise caution when fighting any chemical fire. On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray. Avoid fire-fighting water entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid all unnecessary exposure.
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6.1.1. For non-emergency personnel

Emergency procedures	: Remove all sources of ignition. Do not get in eyes, on skin, or on clothing. Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection. Use chemically protective clothing.
Emergency procedures	: Remove all sources of ignition. Do not get in eyes, on skin, or on clothing.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Large spills: Dike far ahead of liquid spill for later disposal. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Wash spill area with soapy water.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing.
Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place.
Incompatible materials : Strong oxidising agents. Acids. Metals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

tetrásodium ethylene diamine tetraacetate (64-02-8)

No additional information available

Disodium metasilicate (6834-92-0)

No additional information available

Potassium alkanoate (-----)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation. Ensure exposure is below occupational exposure limits (where available). Emergency eye wash stations should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear chemically resistant protective gloves.

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Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Long-sleeved protective clothing

Respiratory protection:

Not required for normal conditions of use. In case of insufficient ventilation, wear suitable respiratory equipment

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Colour	: Colourless
Odour	: Slight
Odour threshold	: No data available
pH	: 10.2 – 12.2
Melting point	: No data available
Freezing point	: 1 °C (33.8 °F)
Boiling point	: 100 °C (212 °F)
Flash point	: Not flammable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 1 – 1.2 (Water = 1)
Solubility	: Water: Miscible
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.

9.2. Other information

VOC content	: < 1 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

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10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Freezing.

10.5. Incompatible materials

Strong oxidising agents. Acids. Metals.

10.6. Hazardous decomposition products

In case of fire product can release: Nitrogen oxides. Sodium oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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LD50 oral, rat	> 3000 mg/kg
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tetrasodium ethylene diamine tetraacetate (64-02-8)

LD50 oral, rat	1780 – 2000 mg/kg
ATE US (oral)	1780 mg/kg bodyweight
ATE US (gases)	4500 ppmv/4h
ATE US (vapours)	11 mg/l/4h
ATE US (dust,mist)	1.5 mg/l/4h
LOAEC, Inhalation, rat	ca. 30 mg/m³ (6h)

Disodium metasilicate (6834-92-0)

LD50 oral, rat	1152 – 1349 mg/kg
LD50 dermal, rat	> 5000 mg/kg
LC50 inhalation, rat (mg/l)	> 2.06 mg/l
ATE US (oral)	1152 mg/kg bodyweight

Potassium alkanoate (-----)

ATE US (oral)	500 mg/kg bodyweight
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Skin corrosion/irritation	: Causes skin irritation. pH: 10.2 – 12.2
Serious eye damage/irritation	: Causes serious eye damage. pH: 10.2 – 12.2
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

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Disodium metasilicate (6834-92-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified.
tetrasodium ethylene diamine tetraacetate (64-02-8)	
STOT-repeated exposure	May cause damage to organs (respiratory tract) through prolonged or repeated exposure (Inhalation).
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential adverse human health effects and symptoms	: Causes serious eye damage. Ingestion may cause irritation of the gastrointestinal tract.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Ingestion may cause irritation of the gastrointestinal tract.

SECTION 12: Ecological information

12.1. Toxicity

tetrasodium ethylene diamine tetraacetate (64-02-8)	
LC50 fish	> 100 mg/l 96h - Oncorhynchus mykiss (OECD 203 method)
EC50 Daphnia	> 114 mg/l 48h - Daphnia Magna (OECD 202 method)
EC50 72h - Algae [1]	> 100 72h - Raphidocelis subcapitata (OECD 201 method)
NOEC chronic fish	≥ 35.1 mg/l 35d - Danio rerio (OECD 210 method)
NOEC chronic crustacea	25 mg/l 21d - Daphnia Magna (OECD 211 method)
NOEC chronic algae	79.4 mg/l 72h - Raphidocelis subcapitata (OECD 201 method)

Disodium metasilicate (6834-92-0)

LC50 fish	210 mg/l - 96 Hours (Danio rerio)
EC50 Daphnia	1700 mg/l - 48 Hours (Daphnia magna)
EC50 72h - Algae [1]	207 mg/l - 72 Hours (Desmodesmus subspicatus)

12.2. Persistence and degradability

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Persistence and degradability	No data available.
tetrasodium ethylene diamine tetraacetate (64-02-8)	
Persistence and degradability	Not readily biodegradable.
Disodium metasilicate (6834-92-0)	
Persistence and degradability	Not biodegradable.

12.3. Bioaccumulative potential

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Bioaccumulative potential	No data available.

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tetrásodium ethylene diamine tetraacetate (64-02-8)

BCF - Fish [1]	1.8 l/kg
Log Pow	-13.17 (calculated value)
Bioaccumulative potential	Not expected to bioaccumulate.

Disodium metasilicate (6834-92-0)

Bioaccumulative potential	Not expected to bioaccumulate.
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12.4. Mobility in soil

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Ecology - soil	Soluble in water.
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Disodium metasilicate (6834-92-0)

Ecology - soil	Not expected to adsorb to soil.
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12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not regulated
Proper Shipping Name (TDG)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not regulated

TDG

Transport hazard class(es) (TDG) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

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14.4. Packing group

Packing group (DOT)	: Not regulated
Packing group (TDG)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated

14.5. Environmental hazards

Other information	: No supplementary information available.
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14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
tetrasodium ethylene diamine tetraacetate	64-02-8	Present	Active	
Disodium metasilicate	6834-92-0	Present	Active	
Potassium alkanoate	-----	Not present	-	

15.2. International regulations

CANADA

tetrasodium ethylene diamine tetraacetate (64-02-8)

Listed on the Canadian DSL (Domestic Substances List)

Disodium metasilicate (6834-92-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

tetrasodium ethylene diamine tetraacetate (64-02-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Disodium metasilicate (6834-92-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

No additional information available

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 10/27/2023

Data sources

: US OSHA HazCom (GHS) 25 May 2012. ECHA (European Chemicals Agency), <http://echa.europa.eu/>. NFPA 704, 2022 edition.

Other information

: Classification procedure. Health hazards: On basis of test data & Calculation method. Physical hazards: On basis of test data. Environmental hazards: On basis of test data & Calculation method.

Full text of H-phrases

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms

	ADR (Accord relatif au transport international des marchandises dangereuses par route)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number
	CLP (Classification, Labeling and Packaging)
	DNEL (Derived No Effect Level)
	EC (European Community)
	EC50 (Effective Concentration 50%)
	EN (European Norm)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)

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Abbreviations and acronyms	
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	MAC (Maximal Allowed Concentration)
	OECD (Organisation for Economic Co-operation and Development)
	PBT (Persistent, Bioaccumulative and Toxic)
	PNEC (Predicted No Effect Concentration)
	QSAR (Quantitative Structure-Activity Relationship)
	REACH (Registration, Evaluation and Authorisation of Chemicals)
	SADT (Self-Accelerating Decomposition Temperature)
	STEL (Short Term Exposure Limit)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	vPvB (very Persistent and very Bioaccumulative)

NFPA health hazard

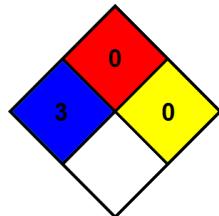
: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability

Physical

: 0 Minimal Hazard - Materials that will not burn

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:			
Section	Changed item	Change	Comments
2	Hazards identification	Modified	No additional information available
3	Composition/information on ingredients	Modified	No additional information available
4	First aid measures	Added	No additional information available
5	Fire fighting measures	Modified	No additional information available
6	Accidental release measures	Added	No additional information available
7	Handling and storage	Modified	No additional information available
8	Exposure controls / Personal protection equipment	Modified	No additional information available
10	Hazardous decomposition products	Modified	No additional information available

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13	Waste disposal recommendations	Modified	No additional information available
15	Regulatory information	Added	No additional information available
16	Other information	Modified	No additional information available

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