SAFETY DATA SHEET

1. Product and Company Identification

Product identifier DETERMATIC

Other means of identification Not available

Recommended restrictions

Recommended use Industrial automatic dishwashing detergent

None known.

Manufacturer
Unica Canada inc.
90, J.A. Bombardier
Boucherville, (Quebec)

Phone: (450) 655-8168 **Emergency Phone (CANUTEC Emergency only): (613) 996-6666**

2. Hazards Identification

GHS classification in accordance with: (CAN) WHMIS 2015

Physical hazardsCorrosive to metalsCategory 1Health hazardsEye damage/irritationCategory 1Skin corrosion/irritationCategory 1Specific target organ toxicity, single exposureCategory 3

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes severe skin burns and eye damage

Causes serious eye damage May cause respiratory irritation May be corrosive to metals

Precautionary statement

Prevention Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing

dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER/doctor. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see this label). Wash contaminated clothing before reuse. Store in a well ventilated place. Keep container tighly closed. Absorb spillage to

prevent material damage.

Storage Keep only in original container. Store locked up. Store in a corrosive resistant container or a

container with resistant inner liner.

Disposal 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/Information on Ingredients

MixtureChemical nameCommon name and synonymsCAS number%Sodium Hydroxide1310-73-27 - 13

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor/.				
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show Wash contaminated clothing before reuse. Specific treatment (see product label). Immediately capoison center/doctor/.				
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present easy to do. Continue rinsing. Immediately call a poison center/doctor.				
If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor/. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.				
				5. Fire Fighting Measures
				Treat for surrounding material.
Use appropriate extinguisher, as surrounding material.				
Firefighters should wear a self-contained breathing apparatus.				
Firefighters should wear full protective clothing including self contained breathing apparatus.				
Move containers from fire area if you can do so without risk.				
Use standard firefighting procedures and consider the hazards of other involved materials.				
May include and are not limited to: Carbon oxide, nitrogen oxide				
Not available.				
Not available.				
6. Accidental Release Measures				
Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.				
Should not be released into the environment.				
Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water				
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.				
Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS Prevent entry into waterways, sewers, basements or confined areas. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes,				
streams, ponds or public waters.				
7. Handling and Storage				
Use only with adequate ventilation. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Avoid breathing vapors or mists of this product. DO NOT get in eyes, on skin or clothing.				

Conditions for safe storage, including any incompatibilities

Store locked up. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

Occupational exposure limits

Components Value

Ceiling: 2 mg/m³ ACGIH TLV Sodium hydroxide

Biological limit values Appropriate engineering

No biological exposure limits noted for the ingredient(s).

controls

Good general ventilation (typically 10 air changes per hour) 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 to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical splash goggles.

Skin protection

Chemical resistant gloves. Confirm with a reputable supplier first. Hand protection

Other

Wear appropriate chemical resistant clothing. As required by employer code. Where exposure

quideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

Not applicable.

Thermal hazards

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. Wash hands before breaks and immediately after handling

the product.

9. Physical and Chemical Properties

Appearance Clear Physical state Liquid. **Form** Liquid Color Red Odor No odor **Odor threshold** Not available.

14.0 Melting point/freezing point Initial boiling point and boiling

< -15 °C

Not available

range

Not available Pour point Partition coefficient Not available

(n-octanol/water)

Not available Flash point Not available **Evaporation rate** 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 Not available Vapor density Not available

Relative density 1.20 Solubility(ies) Complete Not available **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

10. Stability and Reactivity

Strong acids. This product react with metals Reactivity

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Chemical stability Conditions to avoid

Stable under recommended storage conditions.

Incompatible materials

Hazardous decomposition

Acids.

products

May include and are not limited to: Sodium oxides

11. Toxicological Information

Reacts with strong acids. This product may react with metals.

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Causes digestive tract burns. Ingestion

Prolonged inhalation may be harmful. Inhalation

Skin contact Causes severe skin burns. Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and

toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity

Components **Species Test Results**

Sodium hydroxide

Acute

Oral LD 50 Rat 140 - 340 mg/kg Dermal LD50 Rabbit 1350 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Exposure minutes Not available. Erythema value Not available. Oedema value Not available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Iris lesion value Not available. Conjunctival reddening Not available.

value

Not available. Conjunctival oedema value Recover days Not available. Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNon-hazardous by WHMIS/OSHA criteria. **Mutagenicity**Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity None

Reproductive toxicityNon-hazardous by WHMIS/OSHA criteria. **Teratogenicity**Non-hazardous by WHMIS/OSHA criteria.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

Further information Not available.

Name of Toxicologically Not available.

Synergistic Products

12. Ecological Information

Ecotoxicity

ComponentsSpeciesTest ResultsSodium hydroxideFish (Onchorhynchus Mykiss) LC50 (96 hours)45.4 mg/l

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No data available

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 Consideration

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. 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

Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. 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. Transport Information

General Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the

> Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the

product will appear below.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number

Proper shipping name Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide)

Hazard class 8 **Packing group** Ш



Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN3266

Proper shipping name Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide)

Hazard class Packing group Ш



15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

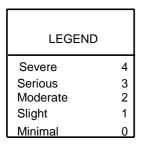
WHMIS status Controlled

WHMIS classification Class E - Corrosive Material

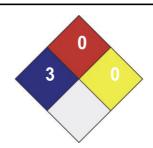
WHMIS labeling



16. Other Information







Disclaimer

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

Issue date April 7, 2017

Effective date April 7, 2017

Version 1.0

Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Prepared by Unica Canada inc. Phone Number: (450) 655-8168

Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).