

 Safety Data Sheet A014EXX

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

 Date of issue: 04/15/2015
 Revision date: 01/13/2020
 Supersedes: o7/17/2019

.1. identification			
Product form		Mixture	
Product name		. 100Z	
Product code		A014EXX-040-002	
.2. Recommended use	and restrictions	OD LISE	
Use of the substance/mixture		This product is specifically manufactured for, and must be exclusively used in, heavy industrial applications.	
.3. Supplier			
HPI Processes Inc 1030 Revenue Drive Telford, PA 18969 T 215-799-0450 www.hpipro.com			
.4. Emergency telepho	one number		
Emergency number		lnfotrac - 800-535-5053	
I COLLON PARTE FRETCHES	oenuneauon_		
.1. Classification of the	e substance or mi	ixture	
GHS US classification			
Skin Corr. 1	H314	Causes severe skin bums and eye damage	
Eye Dam. 1	H318	Causes serious eye damage	
ull text of hazard classes and	H-statements : se	e section 16	
Hazard pictograms (GHS US)			
Signal word (GHG US) Hazard statements (GHS US))	Danger H314 - Causes severe skin bums and eye damage	
	1	H318 - Causes serious eye damage	
Precautionary statements (G	HS US)	P260 Do not breathe dust.	
		 P264 - Wash hands, forearms and face, clothing thoroughly after handling. P280 - Wear eye protection, face protection, protective clothing, protective gloves. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361 +P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing 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, a POISON CENTER P363- Wash contaminated clothing before reuse. P405 - Store locked up. P501 - D spose of contents/container lo hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation 	
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No additional information avail 2.4. Unknown acute tox	able icity (GHS US)	 P280 - Wear eye protection, face protection, protective clothing, protective gloves. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing 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, a POISON CENTER P363 - Wash contaminated clothing before reuse. P405 - Store locked up. P501 - D spose of contents/container lo hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation 	
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Version: 5.1

according to Federal Register / Vol. 7/, to. b8 / Monday, March 26, 2012 / Rules and Regulations

3S Milues

Name	Common flame (Synonyms)	Product identifier	%	GHS UG classification
Sodium Carbonate	anhydrous soda / ash / bisodium carbonate / calcined soda(=sodium arbonate) / arbonic acid disodium salt / carbonic acid sodium salt / CASWELL NO. 752 / chrystol carbonate / crystoT arbonate / crystoT arbonate / crystoT arbonate / sodium carbonate) / soda ash / soda (=sodium carbonate) / sodia ash / soda, crystals / sodium carbonate, anhydrous / sodium carbonate, anhydrous ASTM 04fi8 / sodium carbonate, anhydrous GE materials D4D5 / sodium carbonate, anhydrous powder / sodium carbonate, crude / sodium carbonate, crude / sodium carbonate, granular / Solvay soda / synthetic ask / washing soda (=sodiumarbonate)	(CAS-No.) 497-19-8	20 — 50	Acute Tox. 4 (Inhalation:dust mist), H332
Sodium Mefasilicate	anfiydrous sodium mefasilicate / disodium mefasilicate / disodium monosilicate / silicic acid (H2SiO3), disodium salr / silJcic acid, disodium salt / sodium metasilicate (Na2SiO3) / sodium metasilicate, anhydrous / sodium silicate, anhydrous / sodium silicate. powder (=disodium mefasiTicate)	(CAS-No.) 6834-92-0	20 — 50	Sk n Corr. 1, H314 Eye Dam. 1, H318
Oxirane, Methyl-, Polymer	ethyleneglycol/propyleneg lycol,copolymer(=PEG 1000P) / TB12087	CAS-No) 9003-11-6	5 — 10	Skin Irrit. 2, H315 Eye Irrifl 2A, H319 Aquatic <u>Acute 3, H402</u>
Diethylene Glycol Mono-Butyl Ether	xy)ethanoT 2B uo bueho ether / butyTdigoT / DEGBE / diethyTene	(CAS-No) 112-34-5	1 — 3	Eye Irat. 2A, H319
	die yle eglu 'eutyT" ether / ethanol, z-{2- butoxyethoxy)-			

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

1.4. Description of first aid measures			
First-aid measures general	Never give anything by more advice (show the label whe	th to an unconscious person. If you feel unwell, seek med e possible).	lical
First-aid measures after inhalation	. Allow affected person to bre	athe fresh air. Allow the victim to rest.	
First-aid measures after skin contact	Remove affected clothing a by warm water rinse.	nd wash all exposed skin area with mild soap and water, f	ollowed
First-aid measures after eye contact		for several minutes. Remove contact lenses, if present ar diately call a poison center or doctor/physician.	id easy to
First-aid measures after ingestion	: Rinse mouth. Do NOT indu	ce vomiting. Obtain emergency medical attention.	
.2. Most important symptoms and eff	ects (acute and delayed)		
Potential Adverse human health effects symptoms	and : Based on available data, th	e classification criteria are not met.	
Symptoms/ePects atter eye contact	. Causes serious eye damag	e.	
01/12/2020	EN (English LIS)		

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4.3. Immediate medical attention and special treatment if necessary

No additional information available

5.1.	Suitable (and unsuitable) extinguish	•
	ble extinguishing media. Foam. Dry powo	
	table extinguishing media	. Do not use a heavy water stream.
5.2.	Specific hazards arising from the	
chemic	cal No additional information available	
5.3.	Special protective equipment and p	
Firefig	ghting instructions	. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protec	ction during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.
«°sst	•J'a s- •r«•r Ana n‹	
6.1.	Personal precautions, protective	upment and emergency procedures
6.1.1.	For non-emergency personnel	
Emer	gency procedures	Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Prote	ective equipment	. Equip cleanup crew with proper protection.
Emer	gency procedures	Ventilate area.
6.2.	Environmental precautions	
Preven	t entry to sewers and public waters. Notif	y authorities if liquid enters sewers or public waters.
6.3.	Methods and material for containme	ent and cleaning up
Metho	ods for cleaning up	On land, sweep or shove! into suitable containers. Minimize generation of dust. Store away from other materials.
6.4.	Reference to other sections	
See He	ading 8. Exposure controls and personal	protection.
7.1.	Precautions for safe handling	
Preca	autions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygie	ene measures	. Wash hands, forearms and face thoroughly after handling.
7.2.	Conditions for safe storage, includi	ng any incompatibilities
Stora	age conditions	: Keep only in the original container in a cool well ventilated place away from: Keep container closed when not in use.
Incom	npatible products	Strong bases. Strong acids.
Incom	npatible materials	Sources of ignition. Direct sunlight.
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8.1.	Control parameters	
100)7	

100Z	
No additional information available	
Sodium Carbonate (497-J9-8)	An any second
No_additional information available	
Sodium Metasilicate (6834-92-0)	
Dietftylene Glycol Mono-Butyl Ether (112•34-5)	and the second se
USA - ACGIH - Occupational Exposure Limits	and the second
Local name	Diethylene glycol monobutyl ether
ACGIH TWA (ppm)	10 ppm (Inhalable fraction and vapor)

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Oxirane, Methyl-, Polymer (9003-11-6) No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective

equipment Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection.

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

other information:

Do not eat, drink or smoke during use.

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9.1. Information on basic physical and chemica	al properties	
Physical state	Solid	
Color	White	
Odor	characteristic	
Odor threshold	No data available	
pH	No data available	
pH solution	12.5 (2% wt.)	
Melting point	No data available	
Freezing point	No data available	
Boiling point	No data available	
Flash point	No data available	
Relative evaporation rate (butyl acetate=1)	No data available	
Flammability (solid, gas)	Non flammable.	
Vapor pressure	. No data available	
Relative vapor density at 20 °C	No data available	
Relative density	No data available	
Solubility	. No data available	
Partition coefficient n-octanol/water (Log Pow)	No data available	
Auto-ignition temperature	No data available	
Decomposition temperature	No data available	
Viscosity, Cinematic	No data available	
Viscosity, dynamic	No data available	
Explosion limits	. No data available	
Explosive properties	No data available	
Oxidizing properties	. No data available	
9.2. Other information		
No additional information available		
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10.1 Popotivity		

10.1. Reactivity

No additional information available

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

Not established.

10.3. Possibility of hazardous reactions

Not established.

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Conditions to avoid fi0.4.

Direct sunlight. Extremely high or low temperatures.

JO.5. Incompatible materials

Strong acids. Strong bases.

fI0.6. Hazardous decomposition products fume. Carbon monoxide. Carbon dioxide.

ñ 1.1 .	information on toxicological e	ffects
Acute toxicity (oral) Not classified		
Acute	e toxicity (dermal)	Not classified
Acute	toxicity (inhalañon)	Not classified

Sodium Carbonate (497-49-8)	
L.D50 oral rat	2800 mg/kg (Rat, Male/female, Experimental value, Ora!, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg (16 CFR 1500. 40, 24 h, Rabbit, Experimental value Dermal)
LC50 inhalation rat (mg/l)	g bR' M Experimental value, Inhalation (aerosol))
ATE US (oral)	2 00 mg!2
ATE US (vapors)	23g/l4h
ATE US (dust, mist)	
Sodium Metasilisate (683d-92-0)	
LD50 dermal rat	> 5000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Read across, Dermal)
LC50 inhalation rat (mg/l)	> 2.06 mph air (OECD 403: Acute Inhalation Toxicity, 4 h, Rab, Male/female, Read-across. Inhalation (vapors))
Dlethylene Glycol Mono-Butyl Ether (112-34	1-5)
LD50 dermal rabbit	2764 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)
ATE US (dermal)	t 2764 mg/kg body weight
kin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
ReproducivetoxGty	Not classified
STOT-single exposure	Not classified
TOT-repeated exposure	Not classified
Aspiration hazard	Not classified
/iscosity, Cinematic	No data available
Potential Adverse human health effects and ymptoms	Based on available data, the classification criteria are not met.
ymptoms/ePects after eye contact	Causes serious eye damage.

12.1. Toxicity

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Sodium Carbonate (4e7-1s-8)	
LC50 fish 1	300 mg/l (Other, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value)
EC50 Daphnia 1	20 e 227 mg/l (Other, 48 h, Geriodaphnia sp., Semi static system, Fresh water, Experimenta U
Sodium MetasiMcate (G834-92-0)	
LC50 fish 1	210 mg/l (Equivalent or similar to OECD 203, 96 h, Bractiydanio rerio, Semi-static system, Fresh water, Experimental value)
EC50 Oaphnia 1	1700 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)
Diethylene Glycol Mono-Butyl E	ther (412-34-5 }
LC50 fish 1	1300 mg/l (Equivalent or similar to OEC•D 203, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 Daphnia 1	> 100 mgs (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC5D (algae)	1101 mg/! (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental vaTue, Nominal concentration)

12.2. Persistence and degradability

100Z	
Persistence and degradability	Not established.
Sodium Carbonate (497-19-8)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable (inorganic)
Ghemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Sodium Meésilicate (6834-92-0)	
Persistence and degradability	BiodegradabiTity: not applicable
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Diethylene Glycol Mono-Butyl Ether (fl12-34-5	
Persistence and degradability	Readily biodegradable in water.
Oxirane, Methyl-, Polym t••o3-11-G)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

100Z	
Bioaccumulative potential	Not established.
Sodium Carbonate (497-19-8)	
Partition coefficient n-octanol/water (Log Pow)	-6.19 (Estimated value)
Bioaccumulative polential	Not bioaccumulative.
Sodium Metasilicate (6834-92-0)	1989.00
Bioaccumulative potential	Bioaccumulation: not applicable.
Diethylene Glycol Mono-Butyl Ether (412-34-5)	
Partition coefficient n-octanol/water (Log Pow)	1 (Experimental value, OECD 117: Partition CoeGcient (n-octanol/wate), HPLG method, 20, °C)
Bioaccumula1ive potential	Low potential for bioaccumulation (Log Kow < 4).
Oxirane, Methyl-, Polymer (9003-11-6)	
Bioaccumulative potential	Not bioaccumu)ative

f2.4. Mobility in soil

Sodium Carbonate (497-4 9-8)			
Ecology - soil	Low potential for adsorption	in soil.	
Sodium Nfesilicate (6834-92-0)			
Ecology - soil	No (test)data on mobility of	the substance available.	
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Diethylene Glycol Mono-Butyl Ether (112-34-5)	
Surface tension	27 mN/m (25 °C, 0.00212 mol/g)
Ecology - soil	Low potential for adsorption in soil.

12.6. Other adverse effects

Othor	infor	mation
Other	11101	mation

Avoid release to the environment.

13.1. Disposal methods

Product/Packaging disposal recommendations . Dispose in a safe manner in accordance with local/national regulations. Ecology - waste materials Avoid release to the environment.

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SECTION 4: Transport information

Department of Transportation (DOE
In accordance with DOT
Transport document description
UN-No.(DOE
Proper Shipping Name (DOT)
Class (DOT)
Packing group (DOT)
Hazard labels (DOT)

UN3253 Disodium trioxosilicate, mixture, 8, III UN3253 Disodium trioxosilicate 8 - Class 8 - Corrosive material 49 CFR 173.136 III - Minor Danger 8 Oorrosive

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Special Provisions (49 GFR 172.102)

IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); \Nooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). 1P3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.

T1 - 1.5 178.274(d)(2) Normal. 178.275(d)(2)

TP33- The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group II or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank subchapter. 154

A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) DOT Vessel Stowage Location

DOT Vessel Stowage Other Emergency Response Guide (ERG) Number Other information passenger vessel.

52- Stow "separated from" acids

No supplementary information available.

25 kg

100 kg

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SECTION 15: Regulatory information

IN.1. US Federal regulations

Sodium Carbonate (497-#9-8) Listed on the United States ISCA (Toxic Substances Control Act) inventory	
Soaium Metasilicate (6B34-92-0) Listed on the United States TSCA toxic Substances Control Act) inventory	
Diethylene Glycol Mono-BUtyl Ether (112-34-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
Oxirane, Methyl-, Polymer (9003-11-6)	

15.2. International regulations

CAWADA

Diethylene Glycol Mono-Buty'l Ether (112-34-5)
Listed on the Canadian DSL (Domestic Sybstances List)

EU-Regulations

National regulations No additional information available

15.3. US State regulations

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations		
Revision date	: 01/13/2020	
Other information	: None.	
Full text of H-phrases:		

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eyeirritation Category 2A
Skin Corr. 1	Skin corrosion/irriation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
<u>H314</u>	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
H402	Harmful to aquatic life

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

01/13/2020