Safety Data Sheet A014EXX-TPS001 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/15/2015 Revision date: 07/26/2016 Supersedes: 04/21/2016 Version: 3.0

SECTION 1: Identification			
1.1. Identification			
Product form :	Mixture		
Product name :	100Z		
Product code :	A014EXX-040-002		
1.2. Relevant identified uses of the substar	nce or mixture and uses advised against		
No additional information available			
1.3. Details of the supplier of the safety dat	ta sheet		
TPS Products			
W 11378 Riverside Rd.			
Marion, WI 54950 - USA			
T 715-754-2207			
1.4. Emergency telephone number			
Emergency number :	715-754-2207		
SECTION 2: Horord(a) identification			
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or mixt	ure		
GHS-US classification			
Skin Corr. 1A H314 Eye Dam. 1 H318			
STOT SE 3 H335			
Full text of hazard classes and H-statements : see s	section 16		
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US) :	GHS05 GHS07		
Signal word (GHS-US) :	Danger		
Hazard statements (GHS-US) :	H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H335 - May cause respiratory irritation		
Precautionary statements (GHS-US) :	 P260 - Do not breathe dust P261 - Avoid breathing dust P264 - Wash hands, forearms and face, clothing thoroughly after handling P271 - Use only outdoors or in a well-ventilated area 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 P312 - Call a doctor, a POISON CENTER if you feel unwell P321 - Specific treatment (see on this label) P363 - Wash contaminated clothing before reuse P403 + P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation 		
2.3. Other hazards			

No additional information available

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture			
Name	Product identifier	%	GHS-US classification
Sodium Carbonate	(CAS No) 497-19-8	20 - 50	Skin Corr. 1A, H314 Eye Dam. 1, H318
Sodium Metasilicate	(CAS No) 6834-92-0	20 - 50	Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335
Oxirane, Methyl-, Polymer	(CAS No) 9003-11-6	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 3, H402
Diethylene Glycol Mono-Butyl Ether	(CAS No) 112-34-5	1 - 3	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).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage.
4.3. Indication of any immediate medical	attention and special treatment needed
No additional information available	

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from the sub	ostance or mixture	
Reactivity	: Thermal decomposition generates : Corrosive vapors.	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equ	uipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.	
Emergency procedures	: Ventilate area.	

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6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3.	Methods and material for containment and cleaning up	
Methods	for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.
6.4.	Reference to other sections	

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions 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. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1.	Control parameters			
Sodium Carbonate (497-19-8)				
Not applicable				
Sodiu	m Metasilicate (6834-9	2-0)		
Not ap	Not applicable			
Diethylene Glycol Mono-Butyl Ether (112-34-5)				
ACGI	4	ACGIH TWA (ppm)		10 ppm
Not applicable				
Oxirane, Methyl-, Polymer (9003-11-6)				
Not ap	plicable			

8.2. Exposure controls Personal protective equipment : Avoid all unnecessary exposure. Hand protection : Wear protective gloves.

: Chemical goggles or face shield.
: Wear suitable protective clothing.
: Wear appropriate mask.
: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and che	emical properties		
Physical state :	Solid		
Color :	White		
Odor :	characteristic		
Odor threshold :	No data available		
pH :	No data available		
pH solution :	12.5 (2% wt.)		

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Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl aceta	te=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	
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	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

9.2. Other information

No additional information available

	- Attached		
SECTION 10: Stability and rea	ctivity		
10.1. Reactivity			
Thermal decomposition generates : Corrosive vapors.			
10.2. Chemical stability			
Not established.			
10.3. Possibility of hazardous rea	0.3. Possibility of hazardous reactions		
Not established.			
10.4. Conditions to avoid			
Direct sunlight. Extremely high or low ter	mperatures.		
10.5. Incompatible materials			
Strong acids. Strong bases.			
10.6. Hazardous decomposition p	roducts		
the second se			
fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.			
CECTION 44. Toxicological in			
11.1. Information on toxicological	l effects		
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Information on toxicological Acute toxicity Sodium Carbonate (497-19-8) LD50 oral rat	Experimental value)		
11.1. Information on toxicological Acute toxicity Sodium Carbonate (497-19-8) LD50 oral rat LD50 dermal rabbit	effects : Not classified 2800 mg/kg (Rat; Experimental value) > 2000 mg/kg (Rabbit; Experimental value)		
Information on toxicological Acute toxicity Sodium Carbonate (497-19-8) LD50 oral rat	Experimental value)		
Information on toxicological Acute toxicity Sodium Carbonate (497-19-8) LD50 oral rat LD50 dermal rabbit	effects : Not classified 2800 mg/kg (Rat; Experimental value) > 2000 mg/kg (Rabbit; Experimental value)		
11.1. Information on toxicological Acute toxicity Sodium Carbonate (497-19-8) LD50 oral rat LD50 dermal rabbit ATE US (oral)	effects : Not classified 2800 mg/kg (Rat; Experimental value) > 2000 mg/kg (Rabbit; Experimental value)		
11.1. Information on toxicological Acute toxicity Sodium Carbonate (497-19-8) LD50 oral rat LD50 dermal rabbit ATE US (oral) Sodium Metasilicate (6834-92-0)	effects : Not classified 2800 mg/kg (Rat; Experimental value) > 2000 mg/kg (Rabbit; Experimental value) 2800.000 mg/kg body weight		
Information on toxicological Acute toxicity Sodium Carbonate (497-19-8) LD50 oral rat LD50 dermal rabbit ATE US (oral) Sodium Metasilicate (6834-92-0) LD50 dermal rat	effects : Not classified 2800 mg/kg (Rat; Experimental value) > 2000 mg/kg (Rabbit; Experimental value) 2800.000 mg/kg body weight		
11.1. Information on toxicological Acute toxicity Sodium Carbonate (497-19-8) LD50 oral rat LD50 dermal rabbit ATE US (oral) Sodium Metasilicate (6834-92-0) LD50 dermal rat Diethylene Glycol Mono-Butyl Ether	effects Not classified 2800 mg/kg (Rat; Experimental value) 2800 mg/kg (Rabbit; Experimental value) 2800.000 mg/kg body weight 5000 mg/kg body weight (112-34-5)		
11.1. Information on toxicological Acute toxicity Sodium Carbonate (497-19-8) LD50 oral rat LD50 dermal rabbit ATE US (oral) Sodium Metasilicate (6834-92-0) LD50 dermal rat Diethylene Glycol Mono-Butyl Ether LD50 dermal rabbit ATE US (dermal)	effects : Not classified 2800 mg/kg (Rat; Experimental value) > 2000 mg/kg (Rabbit; Experimental value) 2800.000 mg/kg body weight 2800.000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity) * (112-34-5) 2764 mg/kg body weight (Rabbit; Experimental value; Equivalent or similar to OECD 402)		
Acute toxicity Sodium Carbonate (497-19-8) LD50 oral rat LD50 dermal rabbit ATE US (oral) Sodium Metasilicate (6834-92-0) LD50 dermal rat Diethylene Glycol Mono-Butyl Ether LD50 dermal rabbit	effects : Not classified 2800 mg/kg (Rat; Experimental value) > 2000 mg/kg (Rabit; Experimental value) 2800.000 mg/kg body weight 2800.000 mg/kg body weight * 5000 mg/kg body weight (Rat; Read-across; OECD 402: Acute Dermal Toxicity) * (112-34-5) 2764 mg/kg body weight (Rabit; Experimental value; Equivalent or similar to OECD 402) 2764.000 mg/kg body weight		

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Germ cell mutagenicity Carcinogenicity	: Not classified : Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	 Not classified May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation Symptoms/injuries after eye contact	May cause respiratory irritation.Causes serious eye damage.

SECTION 12: Ecological information

12.1. Toxicity

Sodium Carbonate (497-19-8)		
LC50 fish 1	300 mg/l (LC50; Other; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimental value)	
Threshold limit algae 1	242 mg/l (EC50; 5 days; Algae)	
Sodium Metasilicate (6834-92-0)		
LC50 fish 1	210 mg/l (LC50; Equivalent or similar to OECD 203; 96 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value)	
Threshold limit algae 1	207 mg/l (EC50; DIN 38412-9; 72 h; Scenedesmus subspicatus; Fresh water)	
Diethylene Glycol Mono-Butyl Ether (112-34-5)		
LC50 fish 1	1300 mg/l (LC50; Equivalent or similar to OECD 203; 96 h; Lepomis macrochirus; Static system; Fresh water; Experimental value)	
EC50 Daphnia 1	4950 mg/l (EC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)	
Threshold limit algae 1	> 100 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 96 h; Desmodesmus subspicatus; Static system; Fresh water; Experimental value)	

12.2. Persistence and degradability

100Z		
Persistence and degradability	Not established.	
Sodium Carbonate (497-19-8)		
Persistence and degradability	Biodegradability: not applicable. Low potential for adsorption in soil.	
ThOD	Not applicable (inorganic)	
Sodium Metasilicate (6834-92-0)		
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
Diethylene Glycol Mono-Butyl Ether (112-34-5)		
Persistence and degradability	Readily biodegradable in water. Low potential for adsorption in soil. Photooxidation in the air.	
Oxirane, Methyl-, Polymer (9003-11-6)		
Persistence and degradability	Not readily biodegradable in water.	
12.3. Bioaccumulative potential		
100Z		
Bioaccumulative potential	Not established.	

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Sodium Carbonate (497-19-8)		
Log Pow	-6.19 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Sodium Metasilicate (6834-92-0)		
Bioaccumulative potential	Bioaccumulation: not applicable.	
Diethylene Glycol Mono-Butyl Ether (112-34-5)		
Log Pow	1 (Test data; Equivalent or similar to OECD 107; 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Oxirane, Methyl-, Polymer (9003-11-6)		
Bioaccumulative potential	Not bioaccumulative.	

12.4. Mobility in soil

Diethylene Glycol Mono-Butyl Ether (112-34-5)		
Surface tension	0.0069 N/m (20 °C)	
12.5. Other adverse effects		
Effect on the global warming	: No known effects from this product.	
GWPmix comment	: No known effects from this product.	
Other information	: Avoid release to the environment.	
SECTION 13: Disposal considerations		

13.1. Waste	treatment methods	
Waste disposal recommendations :		: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials		: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description

- : UN3253 Disodium trioxosilicate, mixture, 8, III
- UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Hazard labels (DOT)
- : UN3253
- : Disodium trioxosilicate
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : III Minor Danger
- : 8 Corrosive



: 213

: 240

DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

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DOT Special Provisions (49 CFR 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 31H22); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2) IP3 - 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
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel
DOT Vessel Stowage Other	: 52 - Stow "separated from" acids
Emergency Response Guide (ERG) Number	: 154
Other information	: No supplementary information available.

TDG

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information
15.1. US Federal regulations

Sodium Carbonate (497-19-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Sodium Metasilicate (6834-92-0)	
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	
SARA Section 313 - Emission Reporting	100 % Glycol Ethers
Oxirane, Methyl-, Polymer (9003-11-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

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National regulations No additional information available

15.3. US State regulations No additional information available

SECTI	ON 16: Other information	
Revision	date	: 07/26/2016
Other inf	formation	: None.
Full text	of H-phrases:	
	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/eye irritation Category 2A
	Skin Corr. 1A	Skin corrosion/irritation Category 1A
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H314	Causes severe skin burns and eye damage
	H315	Causes skin irritation
	H318	Causes serious eye damage
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	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