

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/9/2017 Revision date: 1/8/2024 Supersedes: 4/21/2022 Version: 2.4

SECTION 1: Identification		
1.1. Identification		
Product form Trade name Product code	: Mixture : Novel Metal Safe : 0640	
1.2. Recommended use and restrictions on	use	
Recommended use	: Machine dishwashing products	
1.3. Supplier		
Synthetic Labs 24 Victory Lane Dracut, MA, 01826 United States T 800.255.4050 - F 978.957.5122 www.syntecpro.com		
1.4. Emergency telephone number		
Emergency number	: Infotrac 24 Hour Medical Emer	gency Number: 1-800-535-5053
SECTION 2: Hazard(s) identification		
2.1. Classification of the substance or mixtu	Ire	
GHS US classification Corrosive to metals Category 1 Acute toxicity (oral) Category 4 Skin corrosion/irritation Category 1A Serious eye damage/eye irritation Category 1 Specific target organ toxicity – Single exposure, Cate	gory 3, Respiratory tract irritation	May be corrosive to metals Harmful if swallowed Causes severe skin burns and eye damage Causes serious eye damage May cause respiratory irritation
2.2. GHS Label elements, including precaut	ionary statements	
GHS US labeling		
Hazard pictograms (GHS US)		•
Signal word (GHS US) Hazard statements (GHS US)	 Danger May be corrosive to metals Harmful if swallowed Causes severe skin burns and Causes serious eye damage May cause respiratory irritation 	
Precautionary statements (GHS US)	 Keep only in original container. Do not breathe dust/fume/gas/ Avoid breathing dust/fume/gas/ Wash hands, forearms and fac Do not eat, drink or smoke whe Use only outdoors or in a well- 	mist/vapors/spray. /mist/vapors/spray. /e thoroughly after handling. en using this product.

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If swallowed: Call a poison center or doctor if you feel unwell. 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 or doctor. Call a poison center or doctor if you feel unwell. Specific treatment (see supplemental first aid instruction on this label). Rinse mouth. Wash contaminated clothing before reuse. Absorb spillage to prevent material-damage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner. 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 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
Disodium Metasilicate	CAS-No.: 6834-92-0	50 – 60	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 STOT SE 3, H335
Sodium Tripolyphosphate	CAS-No.: 7758-29-4	5 – 10	Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

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

: Call a physician immediately.
 Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.

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First-aid measures after eye contact First-aid measures after ingestion	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effects (acute and delayed)
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 May cause respiratory irritation. Burns. Serious damage to eyes. Burns.

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	: Water spray. Dry powder. Foam.		
5.2. Specific hazards arising from the chemical			
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Special protective equipment and precautions for fire-fighters			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm	ient and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment a	nd cleaning up	
Methods for cleaning up Other information	 Mechanically recover the product. Dispose of materials or solid residues at an authorized site. 	

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includi	· · ·
Storage conditions	 Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Metals.
SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	
Novel Metal Safe	
No additional information available	
Sodium Tripolyphosphate (7758-29-4)	
No additional information available	
Disodium Metasilicate (6834-92-0)	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.
8.3. Individual protection measures/Pers	sonal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear suitable	respiratory equipment
Personal protective equipment symbol(s):	



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Powder.
Color	:	white
Odor	:	odorless
Odor threshold	:	No data available
рН	:	No data available
pH solution	:	12 – 13
Melting point	:	No data available
Freezing point	:	Not applicable
Boiling point	:	No data available
Flash point	:	Not applicable
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	:	Not applicable
Solubility	:	Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	No data available
Explosion limits	:	Not applicable
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological informatior	1
11.1. Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Harmful if swallowed. : Not classified : Not classified
Novel Metal Safe	
ATE US (oral)	1540 mg/kg body weight
Sodium Tripolyphosphate (7758-29-4)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 4640 mg/kg body weight (24 h, Rabbit, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 0.39 mg/l (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
ATE US (dust, mist)	0.05 mg/l/4h
Disodium Metasilicate (6834-92-0)	
LD50 oral rat	1152 – 1349 mg/kg body weight (Rat, Male / female, Experimental value, Oral, 7 day(s))
LD50 dermal rat	> 5000 mg/kg body weight (EPA OPPTS 870.1200: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 2.06 mg/l (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE US (oral)	1152 mg/kg body weight
ATE US (dust, mist)	1.5 mg/l/4h
kin corrosion/irritation : Causes severe skin burns.	
Sodium Tripolyphosphate (7758-29-4)	
рН	9.7 – 9.9 (1 %)
Disodium Metasilicate (6834-92-0)	
pH	No data available in the literature
Serious eye damage/irritation	: Causes serious eye damage.
Sodium Tripolyphosphate (7758-29-4)	
pH	9.7 – 9.9 (1 %)
Disodium Metasilicate (6834-92-0)	
рН	No data available in the literature
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
Disodium Metasilicate (6834-92-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	: Not applicable
Disodium Metasilicate (6834-92-0)	
Viscosity, kinematic	Not applicable (solid)
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general :	Before neutralisation, the product may represent a danger to aquatic organisms.
Sodium Tripolyphosphate (7758-29-4)	
LC50 - Fish [1]	> 1850 mg/l (AFNOR, 24 h, Danio rerio, Fresh water, Experimental value)
EC50 - Crustacea [1]	> 100 mg/l (EPA OTS 797.1930, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	160 mg/l (ISO 8692, 4 day(s), Desmodesmus subspicatus, Fresh water, Experimental value)
Disodium Metasilicate (6834-92-0)	
LC50 - Fish [1]	210 mg/l (ISO 7346-1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	1700 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

Sodium Tripolyphosphate (7758-29-4)		
Biodegradability: not applicable.		
Not applicable		
Not applicable		
Not applicable		
Disodium Metasilicate (6834-92-0)		
Biodegradability: not applicable.		
Not applicable (inorganic)		
Not applicable (inorganic)		

12.3. Bioaccumulative potential

Sodium Tripolyphosphate (7758-29-4)	
Bioaccumulative potential	Not bioaccumulative.
Disodium Metasilicate (6834-92-0)	
Bioaccumulative potential	Not bioaccumulative.

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12.4. Mobility in soil	
Sodium Tripolyphosphate (7758-29-4)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.15 (log Koc, Experimental value)
Ecology - soil	Low potential for adsorption in soil.
Disodium Metasilicate (6834-92-0)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for adsorption in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information	
14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	 : UN1759 : Not applicable : Not applicable : Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Corrosive solids, n.o.s. Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT) Hazard labels (DOT)	: 8 : 8 CORROSIVE
TDG Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable

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IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 II Not applicable Not applicable Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	 : UN1759 : 128 - Regardless of the provisions of §172.101(c)(12), aluminum smelting by-products and aluminum remelting by-products described under this entry, meeting the definition of Class 8, Packing Group II and III may be classed as a Division 4.3 material and transported under this entry. The presence of a Class 8 hazard must be communicated as required by this Part for subsidiary hazards 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); 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) DOT Packaging Non Bulk (49 CFR 173.xxx)	: 154 : 213
DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 240
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.
TDG Emergency Response Guide (ERG) Number	: 154
IMDG No data available	
ΙΑΤΑ	

IATA No data available

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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

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
Sodium Tripolyphosphate	7758-29-4	Present	Active	
Disodium Metasilicate	6834-92-0	Present	Active	

15.2. International regulations

CANADA

Sodium Tripolyphosphate (7758-29-4)

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

National regulations

No additional information available

15.3. US State regulations	
Component	State or local regulations
Sodium Tripolyphosphate(7758-29-4)	U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information	ation
according to Federal Register / Vol. 7 Revision date	77, No. 58 / Monday, March 26, 2012 / Rules and Regulations : 1/8/2024
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 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.

Safety Data Sheet (SDS), USA

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.