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1. Identification

1.1. Product identifier

Product Identity ValidityCheck / pHCheck
Alternate Names Product Numbers 18010 through 19011 and CUSTOM

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use See Technical Data Sheet.
Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name UTAK Laboratories, Inc.
25020 Avenue Tibbitts
Valencia, California 91355

Emergency

24 hour Emergency Telephone No. Toll free: (800) 235-3442
Direct: (661) 294-3935
Customer Service: UTAK Laboratories, Inc. Toll free: (800) 235-3442
Direct: (661) 294-3935
Fax: (661) 294-9272

2. Hazard(s) identification

2.1. Classification of the substance or mixture

Acute Tox. 4;H302	Harmful if swallowed.
Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Warning

H302 Harmful if swallowed.
H315 Causes skin irritation.

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H319 Causes serious eye irritation.

[Prevention]:

- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves / eye protection / face protection.

[Response]:

- P301+312 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell.
- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
- P321 Specific treatment (see information on this label).
- P330 Rinse mouth.
- P332+313 If skin irritation occurs: Get medical advice / attention.
- P337+313 If eye irritation persists: Get medical advice / attention.
- P362 Take off contaminated clothing and wash before reuse.

[Storage]:

No GHS storage statements

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Citric acid CAS Number: 0000077-92-9	1.0 - 10	Eye Irrit. 2;H319	[1]
Sodium hydroxide CAS Number: 0001310-73-2	1.0 - 10	Skin Corr. 1A;H314 Acute Tox. 4;H312 Aquatic Acute 2;H401 Aquatic Chronic 2;H411	[1][2]
Sodium nitrite CAS Number: 0007632-00-0	1.0 - 10	Ox. Sol. 3;H272 Acute Tox. 3;H301 Aquatic Acute 1;H400	[1]
Disodium phosphate heptahydrate CAS Number: 0007782-85-6	1.0 - 10	Skin Irrit. 2;H315 Eye Irrit. 2;H319	[1]
Sodium azide CAS Number: 0026628-22-8	1.0 - 10	Acute Tox. 2;H300 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	[1][2]

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In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Treat minor cuts and abrasions in the appropriate manner using a disinfectant. Get medical assistance.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview	No specific symptom data available. See section 2 for further details.
Eyes	Causes serious eye irritation.
Skin	Causes skin irritation.
Ingestion	Harmful if swallowed.

5. Fire-fighting measures

5.1. Extinguishing media

In case of fire, use extinguishing media appropriate for surrounding material.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Assumed stable

5.3. Advice for fire-fighters

As required for surrounding materials.

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6. Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Wash immediate and surrounding area with a disinfectant water solution.
Dispose of waste in accordance with all federal, state, and local regulations.

7. Handling and storage

7.1. Precautions for safe handling

Observe standard laboratory safety practices. Wash thoroughly after handling.
See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.
Incompatible materials: Strong acids and bases
Store according to directions on label and cap tightly.
See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

For analytical or laboratory use only

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000077-92-9	Citric acid	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0001310-73-2	Sodium hydroxide	OSHA	TWA 2 mg/m ³
		ACGIH	Ceiling: 2 mg/m ³
		NIOSH	C 2 mg/m ³
		Supplier	No Established Limit
0007632-00-0	Sodium nitrite	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

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		Supplier	No Established Limit
0007782-85-6	Disodium phosphate heptahydrate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0026628-22-8	Sodium azide	OSHA	No Established Limit
		ACGIH	Ceiling: 0.29 mg/m ³ (as Sodium azide) Ceiling: 0.11 ppm (as Hydrazoic acid vapor)
		NIOSH	C 0.1 ppm (as HN ₃) [skin] C 0.3 mg/m ³ (as NaN ₃) [skin]
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000077-92-9	Citric acid	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0001310-73-2	Sodium hydroxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007632-00-0	Sodium nitrite	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007782-85-6	Disodium phosphate heptahydrate	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0026628-22-8	Sodium azide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory Use ventilation of a standard laboratory hood system.

Eyes Safety goggles required

Skin Wear appropriate laboratory apparel and impervious gloves.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

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Appearance	Clear Liquid
Odor	Slight
Odor threshold	Not determined
pH	Varies
Melting point / freezing point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash Point	Unknown
Evaporation rate (Ether = 1)	Not applicable
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Unknown Upper Explosive Limit: Unknown
Vapor pressure (Pa)	Not applicable
Vapor Density	Not applicable
Specific Gravity	Varies
Solubility in Water	Freely Soluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Unknown
Decomposition temperature	Not available
Viscosity (cSt)	Not available
9.2. Other information	
No other relevant information.	

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong acids and bases

10.6. Hazardous decomposition products

Assumed stable

11. Toxicological information

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Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Citric acid - (77-92-9)	5,400.00, Mouse - Category: NA	No data available	No data available	No data available	No data available
Sodium hydroxide - (1310-73-2)	6,600.00, Mouse - Category: NA	1,350.00, Rabbit - Category: 4	600.00, Mouse - Category: NA	No data available	No data available
Sodium nitrite - (7632-00-0)	180.00, Rat - Category: 3	No data available	No data available	5.50, Rat - Category: NA	No data available
Disodium phosphate heptahydrate - (7782-85-6)	No data available	No data available	No data available	No data available	No data available
Sodium azide - (26628-22-8)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed.
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

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Toxic to aquatic life
Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Citric acid - (77-92-9)	706.00, Fish (Piscis)	Not Available	Not Available
Sodium hydroxide - (1310-73-2)	196.00, Poecilia reticulata	40.38, Ceriodaphnia dubia	Not Available
Sodium nitrite - (7632-00-0)	0.11, Oncorhynchus mykiss	12.50, Daphnia magna	159.00 (72 hr), Tetraselmis chuii
Disodium phosphate heptahydrate - (7782-85-6)	Not Available	Not Available	Not Available
Sodium azide - (26628-22-8)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards			

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14.6. Special precautions for user
No further information

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification D2B

US EPA Tier II Hazards

Fire: No
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (lbs):

Sodium azide (1,000.00)
Sodium hydroxide (1,000.00)
Sodium nitrite (100.00)

EPCRA 302 Extremely Hazardous:

Sodium azide

EPCRA 313 Toxic Chemicals:

Sodium azide
Sodium nitrite

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Sodium azide
Sodium hydroxide

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Sodium nitrite

Pennsylvania RTK Substances (>1%):Sodium azide
Sodium hydroxide
Sodium nitrite**16. Other information**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H272 May intensify fire; oxidizer.
H300 Fatal if swallowed.
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H401 Toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

This information is intended to be applicable to TDM/Toxicology Control materials manufactured by UTAK only. It does not relate to the pure materials which are used to manufacture this product. The information presented in this data sheet has been gathered from reliable sources, but has not been verified by UTAK. Therefore, there is neither official representation nor specific guarantees for the complete accuracy of information.

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