



Kit SDS Cover Sheet

Product Name:

Item No(s):

This is a test kit that is comprised of several individual components, listed below, each of which may have its own Safety Data Sheet (SDS). If a component does not have a Safety Data Sheet included, the item falls under Hazard Communication [1910.1200(b)(6)], *Articles*, and does not require a Safety Data Sheet.

Kit Components:

For product information, please contact your Neogen Corporation Representative.

For further information on this SDS, please contact SDS@neogen.com.

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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Activator Ampoules (2% Bromine)

Revision 0
Revision date 2019-05-03

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Activator Ampoules (2% Bromine)
Product code	8924, 8951, 8956

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

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;
Description	Intended for laboratory use only.

1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

1.4. Emergency telephone number

Emergency telephone number	1-800-234-5333
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Further information


Hotline(s):	Medical: United States (1-800-498-5743), International (1-651-523-0318). Spill/CHEMTREC: United States (1-800-424-9300), International (1-703-527-3887).
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Skin Corr. 1A: H314; Eye Dam. 1: H318; Acute Tox. 1: H330; Aquatic Chronic 1: H410;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Eye Dam. 1: H318 - Causes serious eye damage. Acute Tox. 1: H330 - Fatal if inhaled. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

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2.2. Label elements

Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P284 - [In case of inadequate ventilation] wear respiratory protection.
Precautionary Statement: Response	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 POISON CENTER/doctor/ . P363 - Wash contaminated clothing before reuse. P391 - Collect spillage.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations

SECTION 3: Composition/information on ingredients

3.1. Substances

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Activator Ampoules (2% Bromine)					90 - 100%	Skin Corr. 1A: H314; Eye Dam. 1: H318; Acute Tox. 1: H330; Aquatic Chronic 1: H410;

Description

Concentrations listed are not product specifications.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Immediate medical attention is required. Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. Seek medical attention.
Skin contact	Rinse immediately with plenty of water. Remove contaminated clothing. Seek medical attention.
Ingestion	Rinse mouth thoroughly. Have person sip a glass of water if able to swallow. DO NOT INDUCE VOMITING unless advised to do so by a doctor. Never give anything by mouth to an unconscious person. Seek medical attention.

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

Inhalation	Fatal if inhaled.
Eye contact	Causes serious eye damage. Danger of very serious irreversible effects.
Skin contact	Causes severe burns. Corrosive to living tissue. Danger of very serious irreversible effects.

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

Ingestion	Ingestion may cause nausea and vomiting. May cause oral mucosal irritation.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Evacuate personnel to a safe area. Keep public away from danger area. Keep upwind. Wear self contained breathing apparatus and protective clothing.
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6.2. Environmental precautions

	Do not flush into surface water. Do not let product contaminate subsoil. Keep public away from danger area. Keep upwind.
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6.3. Methods and material for containment and cleaning up

	Keep personnel away from spill. Prevent further spillage if safe. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Keep public away from danger area. Keep upwind.
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6.4. Reference to other sections

	See section 2, 8 & 13 for further information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Do not breathe gas/fumes/vapor/spray. Ensure adequate ventilation of the working area. In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable protective clothing, gloves and eye/face protection. Avoid contact with eyes. Do not eat, drink or smoke in areas where this product is used or stored. Follow label instructions.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep at temperature not exceeding 30°C. Keep container tightly closed. Avoid contact with: Acids.
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7.3. Specific end use(s)

	See Section 1.2 for further information.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Values


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Exposure Limit Values

Activator Ampoules (2% Bromine)	ACGIH TLV TWA: 0.1 ppm	ACGIH TLV STEL: 0.2 ppm
	Notations:	OSHA PEL 8hr TWA ppm: 0.1
	OSHA PEL 8hr TWA mg m3: 0.7	Skin Designation:
	NIOSH REL 10hr TWA ppm:	NIOSH REL 10hr TWA mg m3:
	NIOSH REL 15 min ST ppm: 0.3	NIOSH REL 15 min ST mg m3: 2.1

8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Wear suitable protective equipment. Remove and wash contaminated clothing before reuse.
Eye / face protection	Wear eye/face protection. Provide eye wash station.
Skin protection - Hand protection	Wear: Chemical resistant gloves. Wash the outside of gloves before removing them. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
Skin protection - Other	Wear suitable protective clothing. Provide chemical shower.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	Keep away from food, drink and animal feed and/ or feed products.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Color	Clear/Light red
Odor	Strong/Unpleasant
Odour threshold	No data available
pH	No data available
Freezing Point	≈ 0 °C
Boiling point	≈ 100 °C
Flash point	No data available
Evaporation rate	No data available
Flammability limits	Not applicable.
Vapor pressure	≈ 233 Pa
Vapor density	No data available
Relative density	≈ 1
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

SECTION 10: Stability and reactivity

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10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Keep away from extreme temperatures. Do not handle in a confined space.

10.5. Incompatible materials

Acids. Organic materials. Oxidizing agents. Metal articles.

10.6. Hazardous decomposition products

Hydrogen bromide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Fatal if inhaled. Ingestion may cause nausea and vomiting.
Skin corrosion/irritation	Causes severe burns. Corrosive to living tissue.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause allergic reactions in susceptible people.
Carcinogenicity	Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-122. Not listed in the National Toxicology Program (NTP) 14th Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No data available.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure.

11.1.4. Toxicological information

Activator Ampoules (2% Bromine)	Oral Rat LD50: 83333	Inhalation Rat LC50/4 h: 0.13
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SECTION 12: Ecological information

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

Activator Ampoules (2% Bromine) No data available

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

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12.5. Results of PBT and vPvB assessment

No data is available on this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of contents/container to an approved hazardous/special waste disposal facility in accordance with local and national regulations.

Disposal methods

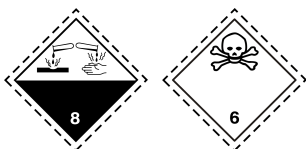
Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water.

Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN1744

14.2. UN proper shipping name

BROMINE SOLUTION (2% Solution)

14.3. Transport hazard class(es)

DOT	8
Subsidiary risk	6.1
IMDG	8
Subsidiary risk	6.1
IATA	8
Subsidiary risk	6.1

14.4. Packing group

Packing group I

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

DOT

Hazard ID	886
Tunnel Category	(C/D)

IMDG

EmS Code F-A S-B

IATA

Packing Instruction (Cargo) FORBIDDEN

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IATA

Maximum quantity	FORBIDDEN
Packing Instruction (Passenger)	FORBIDDEN
Maximum quantity	FORBIDDEN

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	<p>Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.</p> <p>All chemicals in this product are TSCA listed or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. TSCA - United States Toxic Substances Control Act Section 8(b) Inventory.</p> <p>US State Regulations:</p> <p>New Jersey Right-to-Know Hazardous Substance List: Bromine</p> <p>Pennsylvania Right-to-Know Hazardous Substance List: Bromine.</p> <p>Massachusetts Right-to-Know Hazardous Substance List: Bromine.</p> <p>Rhode Island Right-to-Know Hazardous Substance List: Bromine.</p> <p>California Prop 65: This material contains no reportable components.</p>
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SECTION 16: Other information

Other information

Text of Hazard Statements in Section 3	<p>Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.</p> <p>Eye Dam. 1: H318 - Causes serious eye damage.</p> <p>Acute Tox. 1: H330 - Fatal if inhaled.</p> <p>Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p>
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Further information

	<p>DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.</p>
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