



Safety Data Sheet (SDS)

BIO-DEX LABORATORIES, LLC

Attack Super Strong Shock Oxidizer

SDS Number: 292

Revision Date: 5/17/2015

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

BIO-DEX LABORATORIES, LLC
4212 W. INNOVATION DR.
PHOENIX, AZ 85086

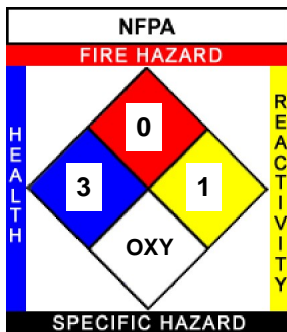
Contact: BIO-DEX LABORATORIES, LLC
Phone: 800-617-3477 // 623-582-2400
Web: www.bio-dex.com

Product Name: Attack Super Strong Shock Oxidizer
Revision Date: 5/17/2015
Version: 1
SDS Number: 292
CAS Number: MIXTURE
Chemical Family: Oxygenated Alkaline Mixture
Chemical Formula: *** PROPRIETARY ***
Product Use: Oxidizing Shock Product Used to Destroy Organic Contamination and Reduce Chloramine Odors in Pot
Emergency Phone: +1-800-424-9300 (CHEMTREC)

2 HAZARDS IDENTIFICATION

NFPA:
HMIS III:

Health = 3, Fire = 0, Reactivity = 1
H*3/F0/PH1



HMIS III	
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARDS	1
PERSONAL PROTECTION F Safety Glasses, Gloves, Apron, Dust Respirator	

PERSONAL PROTECTION INDEX			
A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions
A	n	o	p
Safety Glasses	Safety Goggles	Face Shield & Eye Protection	Gloves
t	u	w	y
Dust Respirator	Vapor Respirator	Dust & Vapor Respirator	Full Face Respirator
q	r	s	
Boots	Synthetic Apron	Full Suit	Additional Information
Z			
Airline Hood or Mask			

GHS Signal Word:
DANGER

GHS Hazard Pictograms:





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GHS Classifications:

- Physical, Oxidizing Solids, 2
- Health, Acute toxicity, 4 Oral
- Health, Skin corrosion/irritation, 1 A
- Health, Serious Eye Damage/Eye Irritation, 1

GHS Phrases:

- H272 - May intensify fire; oxidizer
- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage

GHS Precautionary Statements:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P220 - Keep/Store away from clothing/combustible materials.
- P221 - Take any precaution to avoid mixing with combustibles.
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P363 - Wash contaminated clothing before reuse.
- P370+378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
- P403+233 - Store in a well ventilated place. Keep container tightly closed.
- P405 - Store locked up.
- P410+412 - Protect from sunlight. Do not expose to temperatures exceeding 55 °C/131 °F.
- P411+235 - Store at temperatures not exceeding 55 °C/131 °F. Keep cool.
- P501 - Dispose of contents/container to an approved waste disposal plant.

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Percentage	Chemical Name
15630-89-4	>85%	Carbonic acid disodium salt, compd. with hydrogen peroxide (H2O2) (2:3)
N/A	12.7%	Trade Secret*
N/A	1.4%	Trade Secret*

*The specific chemical identities of the ingredients of this mixture labeled as "Trade Secret" are considered to be proprietary and are withheld in accordance with the provisions of 29CFR1910.1200 Sect. (i) Trade Secrets.

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FIRST AID MEASURES

Inhalation: Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.



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- Skin Contact:** Take off contaminated clothing and shoes immediately. Wipe/brush off as much chemical as possible from skin BEFORE flushing skin with water (water will react exothermically with large amounts of residual dry chemical, potentially causing more severe burns). Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. If reddening develops and/or persists, obtain medical attention.
- Eye Contact:** Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention. Continue rinsing eyes during transport to hospital.
- Ingestion:** Rinse mouth with water. Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. If vomiting occurs, give more more water or milk. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11. The primary hazard of this product is the corrosivity on the eyes, skin and mucous membranes. Direct eye contact is likely to cause corneal damage, especially if not washed immediately after exposure. Careful ophthalmologic evaluation is recommended. The possibility of local corticosteroid therapy should be considered. If this product is ingested, it may be advisable to insert a nasogastric or orogastric tube to relieve or prevent increased pressure that may result from the rapid evolution of Oxygen gas upon decomposition. Because of the likely corrosive effects on the gastrointestinal tract after ingestion, evacuating stomach contents via emesis or gastric lavage should be avoided. Delayed pulmonary edema can occur several hours after exposure.

Indication of any immediate medical attention and special treatment needed:

No data available.

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FIRE FIGHTING MEASURES

- Flammability:** Not flammable
- Flash Point:** DNA
- Flash Point Method:** DNA
- Burning Rate:** No data available
- Autoignition Temp:** No data available
- LEL:** No data available
- UEL:** No data available

Extinguishing Media:

Water Spray
Carbon Dioxide
Alcohol-Resistant Foam
Dry Chemical

Special Hazards Arising From the Substance or Mixture:

Carbon Oxides
Silicon Oxides
Sodium Oxides

Advice for Firefighters:

Firefighters should wear full-face, positive-pressure respirators.

Further Information:

If incinerated, may release toxic fumes.

Carbonic acid, disodium salt, compd. with Hydrogen Peroxide (H₂O₂) (2:3) decomposes to form water and oxygen, which may intensify fires. Use caution.

Use water spray to cool unopened containers. Wet or damp material may start to decompose and release heat causing any



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nearby combustibles to catch fire. If containers begin to discolor or vent violently, emergency responders should evacuate area.

See Section 7 for more information on safe handling.

See Section 8 for more information on personal protection equipment.

See Section 13 for disposal information.

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ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment, including dust respirator.

Avoid dust formation.

Avoid breathing dust.

Keep from contacting skin or eyes.

Avoid breathing vapors, mist or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental Precautions:

Prevent further release (leakage/spillage) if safe to do so.

Do not allow product to enter drains.

Do not allow to drain to environment.

Methods and Materials for Containments and Cleaning Up:

Pick up and arrange disposal without creating dust.

Sweep up, shovel or collect spillage with an electrically protected vacuum cleaner.

If product was previously diluted in water and in aqueous phase, absorb product with liquid-binding, non-combustible material (sand, diatomite, non-aidic clay) Do NOT use sawdust.

Place contaminated material into suitable, closed containers for disposal.

Combustible materials exposed to the product should be immediately submerged in or rinsed with large amounts of water to ensure that all product is removed. Residual product that is allowed to dry can concentrate on organic materials such as paper, fabrics, cotton, leather, wood or other materials can cause the material to spontaneously ignite and result in a fire.

Dispose of contaminated material according to Section 13.

Oxidizer wastes are not to be mixed with any other wastes, including other oxidizer wastes!

After spillage has been collected, area may be flushed with water or wet-brushed.

Ensure adequate ventilation.

Reference to Other Sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on proper disposal.

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HANDLING AND STORAGE

Handling Precautions:

Wear protective clothing. Avoid cotton, wool or leather.

Avoid breathing dusts, vapors or mist.

Avoid formation of dusts.

Avoid contact with eyes, skin, or clothing.

Use approved, original containers only.

Keep containers closed when not in use.

Do not expose containers to open flame, excessive heat, or direct sunlight.

Avoid contamination of material. Contamination may cause decomposition and generation of Oxygen gas which could result in high pressures and possibly rupture containers.



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Do not puncture or drop containers.
Handle with care and avoid spillage on the floor.
Keep material out of reach of children.
Keep material away from incompatible materials.
Wash thoroughly after handling.
Ensure adequate ventilation.

Storage Requirements: Do not store at temperatures exceeding 55 °C/131 °F.
Keep away from heat, sparks and flames.
Do not store in direct sunlight.
Store away from strong acids, strong reducing agents, strong oxidizing agents, organic materials, metal salts, combustible materials, powdered metals, reactive metals (Zinc & Aluminum) and the alloys (Brass, etc.), Tin/Tin Oxides and Lead.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Personal Protective Equip: Eye/face protection:
When using material use safety glasses, gloves, apron and dust respirator according to HMIS PP, F. All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection:
Handle with gloves made from Neoprene, Nitrile, PVC or Buna rubber. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves according to applicable laws and laboratory practices.

Body Protection:
Chemically resistant gloves, safety glasses and apron are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Respiratory protection:
Use of a dust respirator is recommended. Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds. Respiratory protection must comply with 29 CFR 1910.134.

Control of environmental exposure:
Prevent leakage or spillage if safe to do so. Do not let material enter drains.

Components with workplace control parameters:

Component(s): Carbonic acid disodium salt, compd. with hydrogen peroxide (H₂O₂) (2:3)

CAS No(s): 15630-89-4

USA OSHA (Total Dust PEL): 15 mg/m³

USA OSHA (Respirable Fraction PEL): 5 mg/m³

USA ACGIH (Inhalable TLV): 10 mg/m³

USA ACGIH (Respirable TLV): 3 mg/m³



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Biological occupational exposure limits:

Contains no substances with biological occupational exposure limits values.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white granules	Odor:	Odorless
Physical State:	Solid	Molecular Formula:	MIXTURE
Odor Threshold:	Not determined	Solubility:	(g/l @ 24 °C): 140
Particle Size:	Not determined	Softening Point:	Not determined
Spec Grav./Density:	DNA	Percent Volatile:	DNA
Viscosity:	Not determined	Heat Value:	Not determined
Sat. Vap. Conc.:	DNA	Freezing/Melting Pt.:	Not determined
Boiling Point:	Not determined	Flash Point:	DNA
Flammability:	(solid, gas): Not flammable	Octanol:	Not determined
Partition Coefficient:	Not determined	Vapor Density:	(air = 1): Not determined
Vapor Pressure:	(mm Hg @ 20 °C): DNA	VOC:	DNA
pH:	@ 1%: 10.4 - 10.6	Bulk Density:	Not determined
Evap. Rate:	DNA	Auto-ignition Temp:	Not determined
Molecular weight:	MIXTURE	UFL/LFL:	DNA
Decomp Temp:	> 50 °C (122 °F)		

10 STABILITY AND REACTIVITY

Stability:	Product is stable under normal conditions.
Conditions to Avoid:	Incompatibilities, flames, ignition sources.
Materials to Avoid:	Strong acids, strong reducing agents, strong oxidizing agents, organic materials, metal salts, combustible materials, powdered metals, reactive metals (Zinc & Aluminum) and the alloys (Brass, etc.), Tin/Tin Oxides and Lead.
Hazardous Decomposition:	Carbon Oxides, Silicon Oxides and Sodium Oxides.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Component(s): Carbonic acid disodium salt, compd. with hydrogen peroxide (H₂O₂) (2:3); Trade Secret; Trade Secret
CAS No(s): 15630-89-4; N/A; N/A

Acute Toxicity:

LD₅₀ Oral - Rat: 1,034 mg/kg
LD₅₀ Dermal - Rabbit: > 2,000 mg/kg
LC₅₀ Inhalation - Rat (2 h): 5,750 mg/l

Skin Corrosion/Irritation: Rabbit skin (4 h) - Corrosive

Serious Eye Damage/Eye Irritation: Rabbit eyes (24 h) - Corrosive

Respiratory or Skin Sensitation: No data available

Germ Cell Mutagenicity:

In vivo assay - Mouse: Does not cause skin sensitization.



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Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity:

Reproductive Toxicity Oral - Rat: Effects on newborn (live birth index, weaning or lactation index)

Specific Target Organ Toxicity - Single Exposure: Respiratory system - May cause respiratory irritation

Specific Target Organ Toxicity - Repeated Exposure: No data available

Aspiration Hazard: No data available

Additional Information:

Component: Carbonic acid disodium salt, compd. with hydrogen peroxide (H₂O₂) (2:3); RTECS: FG0750000

Component: Trade Secret; RTECS: N/A

Component: Trade Secret; RTECS: N/A

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ECOLOGICAL INFORMATION

Component(s): Carbonic acid disodium salt, compd. with hydrogen peroxide (H₂O₂) (2:3); Trade Secret; Trade Secret

CAS No(s): 15630-89-4; N/A; N/A

Toxicity:

Toxicity to fish:

LC50 - Pimephales promelas (Fathead Minnow): 70.7 mg/l (96 h)

NOEC - Pimephales promelas (Fathead Minnow): 7.4 mg/l (96 h)

LC50 - Lepomis macrochirus (Bluegill): 300 mg/l (96 h)

Semi-Static Test LC50 - Danio rerio (Zebra Fish): 210 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia magna (Water Flea): 4.9 mg/l (48 h)

EC50 - Daphnia pulex: 4.9 mg/l (48 h)

EC0 - Daphnia magna (Water Flea): 2 mg/l (48 h)

NOEC - Daphnia pulex: 2 mg/l (48 h)

Persistence and Degradability:

No data available

Bioaccumulative potential:

No data available

Mobility in Soil:

No data available



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Results of PBT and vPvB assessment:

Not required/conducted

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

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DISPOSAL CONSIDERATIONS

Product: Hazardous wastes shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

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TRANSPORT INFORMATION

DOT Class: Oxidizer (5.1) #5.1

UN #: UN 1479, Class: 5.1, Proper Shipping Name: Oxidizing solid, n.o.s. (containing Sodium Carbonate Peroxyhydrate)

DOT (US)

UN Number: 1479

Class: 5.1

Packing Group: II

ERG #: 140

Proper Shipping Name: Oxidizing solid, n.o.s. (containing Sodium Carbonate Peroxyhydrate)

Marine Pollutant: No

Poison Inhalation Hazard(s): No

IMDG

UN Number: 1479

Class: 5.1

Packing Group: II

EMS-No: F-A, S-Q

Proper Shipping Name: Oxidizing solid, n.o.s. (containing Sodium Carbonate Peroxyhydrate)

Marine Pollutant: No

IATA

UN Number: 1479

Class: 5.1

Packing Group: II

ERG #: 140

Proper Shipping Name: Oxidizing solid, n.o.s. (containing Sodium Carbonate Peroxyhydrate)

Marine Pollutant: No





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15 REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Carbonic acid disodium salt, compd. with hydrogen peroxide (H₂O₂) (2:3) (15630894 >85%) NJHS, PA, SARA311/312, TSCA

*Trade Secret (N/A 12.7%) NJHS, PA, SARA311/312, TSCA

*Trade Secret (N/A 1.4%) NJHS, PA, SARA311/312, TSCA

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List
NJHS = New Jersey Right to Know Hazardous Substances
PA = PA Right-To-Know List of Hazardous Substances
SARA311/312 = SARA 311/312 Toxic Chemicals
TSCA = Toxic Substances Control Act

16 OTHER INFORMATION

Disclaimer:

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that BIO-DEX LABORATORIES, LLC. believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of BIO-DEX LABORATORIES, LLC's control, BIO-DEX LABORATORIES, LLC. makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.

Preparation Information:

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