SECTION 1: IDENTIFICATION

Product: Formaldetox
Product number: 202
Synonyms: Sodium percarbonate
Recommended use: Laboratory chemical, oxidizing agent

Company

Anatech Ltd	24 hour Transportation Emergency	800.424.9300 CHEMTREC
1020 Harts Lake Road	Product Technical Information	800.262.8324, M-F, 8 AM-5 PM, ET
Battle Creek, MI 49037, USA	Supplier General Contact	800.262.8324, M-F, 8 AM-5 PM, ET

SECTION 2: HAZARD(S) IDENTIFICATION

Classification of substance
Acute toxicity, oral (Category 4)
Serious eye damage (Category 1)

Signal word
Danger

Hazard statement
Harmful if swallowed.
Causes serious eye damage.

Pictogram

Precautionary statements

Prevention
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear eye protection/face protection.

Response
If swallowed: Call poison center or get medical advice/attention.
Rinse mouth.
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.

Disposal
Dispose of contents/containers in accordance with governmental regulations.

Hazards not otherwise classified
None as defined under 29 CFR 1900.1200

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS#	Concentration
Sodium percarbonate	15630-89-4	≥85%
Sodium carbonate	497-19-8	<13%
Sodium silicate	1344-09-8	<2%

*As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals in accordance with applicable provisions of paragraph (i)

SECTION 4: FIRST-AID MEASURES

Description of first-aid measures

Inhalation	Remove victim to fresh air if coughing or difficulty in breathing is experienced. Consult a physician if symptoms persist or worsen. Administer oxygen or artificial respiration as needed.
Eye	Flush eyes for at least 15 minutes in an eyewash station. Consult a physician.
Skin	Remove contaminated clothing, including footwear; wash before reuse or discard. For minor exposure, wash affected area with water and mild soap, rinsing thoroughly. In cases of prolonged, repeated or extensive exposure, rinse affected area or entire body for at least 15 minutes. Consult a physician.
Ingestion	Call a poison center immediately.

Important symptoms, acute and delayed

May cause nose, throat, and lung irritation.
Prolonged skin contact may cause skin irritation.
Eye contact symptoms: redness, lachrymation, swelling of tissue.
Ingestion symptoms: severe irritation, nausea, abdominal pain, vomiting, diarrhea.

Recommendations for immediate medical care and special treatment

See listed first-aid procedures. No information available for special treatment. Treat according to symptoms.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable and unsuitable extinguishing media

Use water/water spray.

Specific hazards arising from the product

Specific hazards during fire fighting:

–Oxidizing.
–Oxygen released in thermal decomposition may support combustion.
–Contact with combustible material may cause fire.
–Contact with flammables may cause fire or explosions.
–Risk of explosion if heated under confinement.

Special protective equipment/precautions for fire-fighters

Fire-fighters may wear self-contained breathing apparatus if necessary. Cool containers with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

Ensure adequate ventilation.
Avoid dust formation.
Avoid contact with skin and eyes.
Keep away from incompatible products.

Protective equipment

Wear appropriate personal protective equipment.

Emergency procedures

Sweep up to prevent slipping hazard.
See information in sub-section above.

Methods and materials for containment and cleanup

Sweep up and collect in suitable container for disposal.
Avoid dust formation.
Wash area with soap and water.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Ensure adequate ventilation.
Avoid contact with skin and eyes.
Avoid dust formation.
Wear appropriate personal protective equipment.

Conditions for safe storage including incompatibilities

Keep containers loosely closed.
Keep only in the original container.
Store at room temperature.
Keep in a dry place.
Keep in a cool, well-ventilated place.
Keep away from heat and sources of ignition.
Keep away from direct sunlight.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

Chemical name	CAS#	Exposure Limit	Value
Sodium percarbonate	15630-89-4	Manufacturer's recommended limit. No regulatory limits for chemical.	5 mg/m^3
Sodium carbonate	497-19-8	Manufacturer's recommended limit. No regulatory limits for chemical.	10 mg/m^3

Appropriate engineering controls

Avoid dust formation.
Provide good general room ventilation.
If required provide local exhaust ventilation, especially in confined areas.

Personal protective measures

Respiratory protection	None generally needed for this small volume. When risk assessment shows one is necessary, wear appropriate dust particle mask.
Eye protection	Use splash-proof goggles. An eyewash station must be nearby, no more than 10 seconds away.
Skin protection	Wear nitrile or chemical resistant gloves. Do not use latex surgical gloves for protection. Safety shower must be nearby, no more than 10 seconds away.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Solid, white granules
Odor	Odorless
Odor threshold	No data available
pH	Not applicable
Melting point/freezing point	No information available
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	No information available
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	Not explosive
Vapor pressure	No information available
Vapor density	No information available
Relative density	Not applicable
Solubility(ies)	150g/l @ 68°F (20°C)
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition	No information available
Viscosity	No information available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as indicated.
Decomposes when moist.
Decomposes on heating.
Potential for exothermic hazard.

Chemical stability

Stable under recommended storage conditions.
Potential for exothermic hazard.

Possibility of hazardous reaction

Fire or intense heat may cause rupture of packages.

Conditions to avoid

Exposure to moisture and heat.

Incompatible materials

Water, acids, bases, heavy metal salts, reducing agents, organic materials, flammable materials, combustible materials.

Hazardous decomposition products

Oxygen.
No hazardous decomposition products if stored and handled as indicated.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure
Skin, eye, inhalation.

Symptoms related to physical, chemical and toxicological characteristics
No information is known.

Delayed and immediate effects
No information is known.

Chronic effects from short- and long-term exposure
No information available.

Numerical measures of toxicity

Acute toxicity, oral (rat)	LD_{50}:1,034 mg/kg
Acute toxicity, inhalation (rat)	LC_0>4,580 mg/m^3, 1 hr
Acute toxicity, dermal (rabbit)	LD_{10}>2,000 mg/kg

Assessment of other acute effects
Rabbit: risk of serious damage to eyes.

Carcinogenicity
None as defined by 29 CFR 1900.1200.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

LC=lethal concentration
NOEC=no observed effective concentration
EC=effective concentration

Test	**Duration**	**Organism**	**Test Results**
Acute toxicity-fish	– 96 hours	*Pimephales promelas*	LC_{50}: 71 mg/l NOEC: 7.4 mg/l
Toxicity-aquatic invertebrates	– 48 hours	*Daphnia pulex*	EC_{50}: 4.9 mg/ NOEC: 2 mg/l

Persistence and degradability
The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential
Not applicable.

Mobility in soil
Water: considerable solubility and mobility.
Soil/sediments: non-significant adsorption.

Other adverse effects
Under massive quantities, product is biologically inert and non-degradable. Ingestion of solids may cause harm to wildlife due to intestinal mechanical blockage or starvation from false feeling of satiation.

SECTION 13: DISPOSAL CONSIDERATIONS

Drain disposal may be possible with the permission of local wastewater treatment authorities. Dilute with plenty of water. Can be landfilled, when in compliance with local regulations. Otherwise contact a licensed professional waste disposal service to dispose of this material. Proper waste disposal is the generator's responsibility. Follow federal, state (provincial) and local regulations.

SECTION 14: TRANSPORT INFORMATION

DOT (USA) and IATA

Proper Shipping Name: Sodium carbonate peroxyhydrate
Identification Number: UN3378
Hazard Class: 5.1
Packing Group: II

Marine pollutant

No.

SECTION 15: REGULATORY INFORMATION

OSHA Hazard Communication Standard

This product is considered hazardous in accordance with 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA (National Fire Protection Association) Rating

General note: The ratings provide information to emergency personnel on the fire hazards associated with the chemical. It is not descriptive of hazards under normal conditions of occupational use.

Health	2	Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
Flammability	0	Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
Instability	1	Materials that in themselves are normally stable but that can become unstable at elevated temperatures and pressures.
Special Hazard Symbol: OX		Materials that possess oxidizing properties.

Disclaimer

Anatech Ltd. believes the information in the SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn may be from sources other than direct test data on the substance itself. It is the user's responsibility to determine suitability of the product for his/her own use, and to assure proper use and disposal of it to protect the safety and health of employees and the protection of the environment.

Date of preparation

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