

Material Safety Data Sheet

Product Trade Name: DIVERBLACK

ID: H190

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name: DIVERBLACK

Manufacturer Information

Chemtech Finishing Systems
14057 Stephens Road
Warren, MI 48089

Contact Phone: (800) 791-2928

Chemtec Emergency Phone: (800) 424-9300

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
1310-73-2	Sodium hydroxide	>60
7631-99-4	Sodium nitrate	10-30
7632-00-0	Sodium nitrite	1-10

Additional Information:

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

*** Section 3 - Hazards Identification ***

Emergency Overview:

DANGER -- CORROSIVE! OXIDIZER! Contact with this material will cause burns to the skin, eyes and mucous membranes.

Eye Contact:

This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.

Skin Contact:

This product is severely irritating to the skin and may cause burns.

Skin Absorption:

None expected.

Ingestion:

This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. This product may cause methemoglobinemia characterized by a reduction in oxygen carrying capacity of the blood with symptoms including headache, dizziness, flushed face, fatigue, nausea, vomiting, drowsiness, stupor, tremors, uneven heart action, coma and rarely death.

Inhalation:

Inhalation of dusts of this product may cause severe irritation and burns to the respiratory tract.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin and respiratory disorders. Preexisting cardiovascular or bone marrow diseases.

*** Section 4 - First Aid Measures ***

Eye Contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Skin Contact:

Immediately take off all contaminated clothing. For skin contact, flush with large amounts of water. Seek immediate medical attention.

Ingestion:

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Inhalation:

If inhaled, immediately remove the affected person to fresh air. Call a physician if symptoms develop or persist.

Material Safety Data Sheet

Product Trade Name: DIVERBLACK

ID: H190

First Aid: Notes to Physician

If cyanosis is severe, intravenous injection of methylene blue, 1 mg/kg body weight, may be of value.

*** Section 5 - Fire Fighting Measures ***

Flash Point: Not applicable

Method Used: Not applicable

Flammability Classification: Not applicable

Upper Flammable Limit (UFL): Not applicable

Lower Flammable Limit (LFL): Not applicable

Fire & Explosion Hazards:

This product is an oxidizing agent and is a serious fire and explosion risk. Do not permit contact with combustible, organic, or other oxidizable materials.

Decomposition Products:

Irritating and toxic gases or fumes may be released during a fire. Decomposition of this product may emit oxides of nitrogen.

Extinguishing Media:

Use any media suitable for the surrounding fires.

Fire-Fighting Instructions:

Firefighters should wear full protective clothing including self contained breathing apparatus.

*** Section 6 - Accidental Release Measures ***

Containment and Clean up procedures must be conducted in accordance with all local, state, and federal regulations.

Containment Procedures:

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up.

Clean-Up Procedures:

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of collected material according to regulation.

*** Section 7 - Handling and Storage ***

Handling Procedures:

Do not get this material in your eyes, on your skin, or on your clothing. Do not take internally. Use this product with adequate ventilation. Wash thoroughly after handling. Do not breathe dust from this material. For industrial use only. Do not mix this product with material which contain AMINES. NITROSAMINE may be formed.

Storage Procedures:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Sodium hydroxide (1310-73-2)

ACGIH: C 2 mg/m³

OSHA: C 2 mg/m³

NIOSH: C 2 mg/m³

Engineering Controls:

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

Material Safety Data Sheet

Product Trade Name: DIVERBLACK

ID: H190

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Protective Equipment:

Wear chemical goggles and face shield.

Skin Protection:

Use impervious gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of dust, appropriate NIOSH/MSHA respiratory protection must be provided.

Personal Protective Equipment:

Eyewash fountains and emergency showers are required.

*** Section 9 - Physical & Chemical Properties ***

Physical State:	Solid	Appearance:	White granular
Odor:	None	Vapor Pressure:	Not determined
Vapor Density:	Not determined	Boiling Point:	Not applicable
Specific Gravity:	Not applicable	pH:	13.9
Viscosity:	Not applicable	VOC:	Not applicable
Solubility Water:	Appreciable	Evaporation Rate:	Not applicable
Percent Volatile:	Not applicable	Percent Solids:	Not applicable

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

This product is an OXIDIZING AGENT - avoid contact with organic material. Sodium nitrite may react with organic amines to form nitrosamines which can cause cancer.

Incompatibility:

This product may react with strong alkalis. Adding water to this product may cause localized overheating and splattering.

Decomposition Products:

Decomposes with heat to produce oxides of nitrogen.

Hazardous Polymerization:

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Sodium nitrate (7631-99-4)

Oral LD50 Rat : 1267 mg/kg

Sodium nitrite (7632-00-0)

Inhalation LC50 Rat : 5500 ug/m³/4H

Oral LD50 Rat : 180 mg/kg

Oral LD50 Mouse : 175 mg/kg

Carcinogenicity:

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Material Safety Data Sheet

Product Trade Name: DIVERBLACK

ID: H190

Chronic Toxicity

Ingestion of nitrites may produce toxicity because nitrites convert hemoglobin into methemoglobin. This produces tissue anoxia and development of symptoms including cyanosis, nausea, vertigo, vomiting, abdominal pain, convulsions, coma and possibly death. It has also been reported that sodium nitrite may be absorbed through the skin.

Other Toxicological Information:

None available.

*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Sodium nitrite (7632-00-0)

Test & Species		Conditions
LC50 (96 hr) rainbow trout (juvenile)	0.19-0.39 mg/L.	Flow-through.

Environmental Fate:

No information available for the product.

*** Section 13 - Disposal Considerations ***

Wastes must be tested using methods described in 40 CFR Part 261. It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous wastes. State and local regulations may differ from Federal disposal regulations. Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Proper Shipping Name	Corrosive Solid, Oxidizing, N.O.S. (contains Sodium Hydroxide, Sodium Nitrate)
Hazard Class	8
UN / NA Number	UN3084
Packing Group	II
Placarding	8, 5.1
Product RQ (lb)	--

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information available.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Sodium hydroxide (1310-73-2)

CERCLA: final RQ = 1000 pounds (454 kg)

Sodium nitrite (7632-00-0)

SARA 313: form R reporting required for 1.0% de minimis concentration

CERCLA: final RQ = 100 pounds (45.4 kg)

SARA 311/312: Acute: Yes Chronic: No Fire: Yes Pressure: No Reactive: Yes

Material Safety Data Sheet

Product Trade Name: DIVERBLACK

ID: H190

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Sodium hydroxide	1310-73-2	Yes	Yes	Yes	Yes	Yes	Yes
Sodium nitrate	7631-99-4	No	Yes	Yes	No	Yes	Yes
Sodium nitrite	7632-00-0	Yes	No	Yes	No	Yes	Yes

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Sodium hydroxide	1310-73-2	Yes	Yes	Yes
Sodium nitrate	7631-99-4	Yes	Yes	Yes
Sodium nitrite	7632-00-0	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Sodium hydroxide	1310-73-2	1% item 1442 (998)
Sodium nitrate	7631-99-4	1% item 1452 (1211)
Sodium nitrite	7632-00-0	1% item 1453 (1218)

***** Section 16 - Other Information *****

NFPA Ratings: Health: 3 Fire: 0 Reactivity: 1 Other: OX

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: Health: 3 Fire: 0 Reactivity: 1 Pers. Prot.:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend:

ACGIH = American Conference of Governmental Industrial Hygienists	NFPA = National Fire Protection Association
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act	NIOSH = National Institute for Occupational Safety and Health
EPA = Environmental Protection Agency	NTP = National Toxicology Program
HMIS = Hazardous Material Identification System	OSHA = Occupational Safety and Health Administration
IARC = International Agency for Research on Cancer	SARA = Superfund Amendments and Reauthorization Act
MSHA = Mine Safety and Health Administration	TSCA = Toxic Substance Control Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Chemtech Finishing Systems bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Jeff Szotek

Material Safety Data Sheet

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ID: H190

Contact Phone: (800) 791-2928 (X227)

This is the end of MSDS for DIVERBLACK.