

Issue Date: 22-July-2015

Revision Date: 14-September-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name DYNA GUARD 95X

Other means of identification

SDS # DYNA-006

Product Code None

Recommended use of the chemical and restrictions on use

Recommended use Rust Prevention/Inhibitor

Restrictions on use Industrial use only

Details of the supplier of the safety data sheet

Manufacturer Address

Company Name: DYNA TECH Chemical Specialties, Inc.

Address: P. O. Box 34
Colgate, WI 53017

Telephone: 262-646-7600

Fax: 262-820-9176

Emergency Telephone Number (24 hours/day): INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Hazard Classification

| | |
|---|-------------|
| Acute Toxicity (Inhalation) | Category 1 |
| Acute Hazards to the Aquatic Environment | Category 1 |
| Aquatic Toxicity | Category 1 |
| Serious Eye Damage | Category 2A |
| Eye Irritation | Category 2A |
| Oxidizing Liquids | Category 3 |
| Acute Toxicity (Oral) | Category 3 |
| Target Organ Toxicity (Repeated exposure) | Category 2 |

Label Elements

Physical State:

Liquid



Exclamation
Mark



Flame Over
Circle



Health
Hazard



Skull and
Crossbones

Signal Word

Danger

Hazard Statements

May cause damage to organs through prolonged or repeated exposure.

May intensify fire; oxidizer.

Toxic if swallowed.

Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.

Toxic to aquatic life.

Precautionary Statements-Prevention

Do not breathe dust/fume/gas/mist/vapors/spray.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Read label before use.
 Avoid release to the environment.
 Remove/Take off all contaminated clothing immediately.
 Use only outdoors or in a well-ventilated area.
 Wash contaminated clothing before reuse.

Precautionary Statements-Response

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 IF ON SKIN: Gently wash with plenty of soap and water.
 Get medical advice/attention if you feel unwell.

Precautionary Statements-Storage

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Keep container tightly closed.
 Store in a well-ventilated place. Keep container tightly closed.
 Store locked up.

Precautionary Statements-Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | Wt. % | CAS |
|-------------------------------|-------|-----------|
| Sodium Nitrite | < 50 | 7632-00-0 |
| Ethanol, 2, 2', 2''-nitrotris | < 15 | 102-71-6 |

COMMENTS: If Chemical Name/CAS number is "proprietary" and/or Weight % is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call poison center or a doctor/physician if you feel unwell.

NOTES TO PHYSICIAN: Treat symptomatically.

ADDITIONAL INFORMATION: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

GENERAL HAZARD: Do not release run off from fire control methods to sewers or waterways.

EXTINGUISHING MEDIA: Water spray.

Unsuitable media: ABC POWDER. CARBON DIOXIDE.

HAZARDOUS COMBUSTION PRODUCTS: Nitrogen containing gases. Sodium Oxides.

EXPLOSION HAZARDS: Fire or excessive heat may produce hazardous decomposition products. Product is a strong oxidizer. Explosive when mixed with combustible material.

FIRE FIGHTING PROCEDURES: Use standard firefighting procedures and consider the hazards of other involved materials. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool and spray with water. Exercise caution when fighting any chemical fire.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus (SCBA) pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal oxidative decomposition can produce OXIDES OF NITROGEN. MAY REACT WITH SECONDARY OR TERTIARY AMINES TO PRODUCE NITROSAMINES.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Evacuate unprotected personnel from area. Maintain adequate ventilation. Use proper safety equipment. Sweep up material into containers and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

LARGE SPILL: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective clothing during clean-up. Do not touch damaged containers or spilled materials unless wearing appropriate clothing. Ensure adequate ventilation. Local authorities should be advised if spillage cannot be contained.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

LAND SPILL: Contain released substance, pump into suitable containers. Plug leak, cut off the supply. Knock down/dilute dust cloud with water spray. Violent exothermic reaction with some acids – release of harmful gases/vapors (carbon dioxide). Carbon dioxide is heavier than air and will collect in ducts, drains and low lying areas. Prevent dust cloud formation. Scoop solid soil spill into closing containers. Clean contaminated surfaces with excess of water. Wash clothing and equipment after handling.

AIR SPILL: See "Water Spill" above.

GENERAL PROCEDURES

PERSONAL PRECAUTIONS: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during spill clean-up. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

SPECIAL PROTECTIVE EQUIPMENT: Use personal protective equipment as required.

COMMENTS – Methods and material for containment and cleaning up

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Clean-up: Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

HANDLING: Wear protective clothing with chemical safety goggles and/or face shields with safety goggles. Use self-contained breathing apparatus if necessary. Do not use in poorly ventilated or confined spaces. When making solutions, heat may be generated. Add slowly to surfaces of solution while stirring to avoid splattering. Never use pressure to empty containers. Empty containers may contain explosive vapors or dangerous residues. Do not cut, puncture, or weld on or near container. All labeled hazardous precautions must be observed. Do not reuse empty container without commercial cleaning or reconditioning. FOR PERSONAL PROTECTION SEE SECTION 8.

STORAGE: Store in cool, well-ventilated area away from heat and out of direct sunlight. Do not store open, unlabeled, mislabeled, or empty containers. Keep containers tightly closed. Store away from incompatible materials. Do not eat, drink, or smoke in work area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear appropriate protective eye glasses or chemical safety goggles while handling this product as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing liquid, spraying liquid or airborne material.

SKIN: Avoid skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots, or full body protection. A safety shower should be located in the work area.

RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

PROTECTIVE CLOTHING: Wear suitable protective clothing.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|------------------------------------|
| Physical State: | Liquid |
| Odor: | Mild |
| Appearance: | Clear liquid |
| Color: | Transparent |
| pH: | Alkaline |
| Percent Volatile: | 82.5 pounds or 15% |
| Flash Point and Method: | NA = not applicable |
| Auto Ignition Temperature: | Not yet determined |
| Vapor Pressure | 0.01 of Triethanolamine 85 at 68°F |
| Vapor Density: | Not yet determined |
| Boiling Point: | 212°F |
| Freezing Point: | Not yet determined |
| Melting Point: | Not yet determined |
| Pour Point: | Not yet determined |
| Thermal Decomposition: | Not yet determined |
| Solubility in Water: | 100% |
| Evaporation Rate: | Not yet determined |
| Density | Not yet determined |
| Specific Gravity (H₂O=1, at 4°C): | 1.20 |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Reactivity: | Not reactive during normal conditions. |
| Hazardous Polymerization: | Does not occur. |
| Stability: | Stable under recommended storage conditions. |
| Conditions to Avoid: | Avoid impact, friction, heat, sparks, flame, and source of ignition. |
| Possibility of Hazardous Reactions: | None under normal processing. |
| Hazardous Decomposition Products: | Thermal oxidative decomposition of this product can produce OXIDES OF NITROGEN, MAY REACT WITH SECONDARY OR TERTIARY AMINES TO PRODUCE NITROSAMINES. |
| INCOMPATIBLE MATERIALS: | Ammonia, amines, reducing agents cyanides, and combustible material. |

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: May cause severe irritation to eyes with possible serious eye damage.

SKIN ABSORPTION: Dust or mist may cause irritation with possible dryness of skin.

ORAL LD50: Will cause irritation to all tissue when contact is made. May be fatal.

INHALATION LC50: Dust or mist may cause irritation to the upper respiratory tract and lungs.

CARCINOGENICITY

Notes: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

BIOACCUMULATION/ACCUMULATION: Not yet determined

DISTRIBUTION: Not yet determined

AQUATIC TOXICITY (ACUTE): Not yet determined

CHEMICAL FATE INFORMATION: Not yet determined

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Product should be disposed in an environmentally safe manner in accordance with local, state and federal regulations.

PRODUCT DISPOSAL: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

EMPTY CONTAINER:

'Empty' containers retain residue (liquid and/or vapor) and may be dangerous.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Do not attempt to clean since residue is difficult to remove.

'Empty' drums should be completely drained, properly bunged and should be disposed of in an environmentally safe manner and in accordance with local, state and governmental regulations.

For work on tanks, please refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other governmental and industrial contemplated operations.

RCRA/EPA WASTE INFORMATION: Disposal should be in accordance with applicable regional, national and local laws and regulations.

RCRA HAZARD CLASS

California Hazardous Waste: Sodium Nitrite – toxic, ignitable, and reactive.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: OXIDIZING SOLID, N.O.S (CONTAINS SODIUM NITRITE), 5.1, PGIII, E R G #140

TECHNICAL NAME: DYNA GUARD 95X

PRIMARY HAZARD CLASS/DIVISION: 5.1

UN/NA NUMBER: 3139

PACKING GROUP: II

NAERG: 140

OTHER SHIPPING INFORMATION: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Not yet determined

AIR (ICAO/IATA)**SHIPPING NAME:** Not yet determined**VESSEL (IMO/IMDG)****SHIPPING NAME:** Not yet determined**15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Oxidizing

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**HAZARD CATEGORIES:** Fire hazard, immediate (acute) health hazard, AND chronic health hazard.**REPORTABLE INGREDIENTS:** Sodium Nitrite**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

| Chemical Name | Wt.% | CAS |
|----------------|------|-----------|
| Sodium Nitrite | < 50 | 7632-00-0 |

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)**CERCLA REGULATORY:** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical Name | Wt.% | CERCLA RQ |
|----------------|------|-----------|
| Sodium Nitrite | < 50 | 100 |

TSCA (TOXIC SUBSTANCE CONTROL ACT)

| Chemical Name | CAS |
|---------------------------------|-----------|
| Sodium Nitrite | 7632-00-0 |
| Ethanol, 2, 2', 2''-nitrioltris | 102-71-6 |

TSCA REGULATORY: Listed**REGULATIONS****STATE REGULATIONS:** Check state and local regulations.**CLEAN WATER ACT – (CWA) Section 112(r) (40 CFR 68.130):** Hazardous substance

16. OTHER INFORMATION

Issue Date: 22-July-2015
Revision Date: 14-September-2015
Revision Note: New format

HMIS RATING

| | | |
|----------------------------|--------------------------|----------|
| HEALTH | <input type="checkbox"/> | 2 |
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 1 |
| PERSONAL PROTECTION | | X |

ADDITIONAL SDS INFORMATION: ABBREVIATION AND ACRONYMS:

ACGIH - American Conference of Government Industrial Hygienists
CAS - Chemical Abstract Service number
DOT - U.S. Department of Transportation
IDLH - Immediately dangerous to life and health
N.A. - Not available
NIOSH - National Institute of Occupational Safety and Health
NTP - *National Toxicology Program*
OSHA - Occupational Safety and Health Administration
PEL - Permissible exposure Limit
ppm - Parts per million
RRA - Resource Conservation and Recovery Act
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. This information should be used to make an independent determination of the methods to safeguard workers and the environment. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF SAFETY DATA SHEET