

Issue Date: 12-August-2015

Revision Date: 14-September-2015

Version 1

1. IDENTIFICATION

Product Identifier

Product Name DYNA CLEAN MACHINE 20

Other means of identification

SDS # DYNA-007

Product Code None

Recommended use of the chemical and restrictions on use

Recommended use General purpose cleaner

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

Corrosive to Metals	Category 1
Acute Hazards to the Aquatic Environment	Category 1
Skin Corrosion	Category 1
Serious Eye Damage	Category 1
Acute Toxicity (Oral)	Category 2
Target Organ Toxicity (Dermal)	Category 1

Label Elements

Physical State: Liquid



Exclamation
Mark



Corrosion

Signal Word

Danger

Hazard Statements

May be corrosive to metals.
May cause respiratory irritation.
Causes severe skin burns and eye damage.
May be harmful if swallowed.
May be harmful in contact with skin.
Harmful to aquatic life.

Precautionary Statements-Prevention

Keep only in original container.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash exposed area thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements-Response

IF EXPOSED OR CONCERNED: Get Medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
 IF ON SKIN OR HAIR: Remove/Take off all contaminated clothing immediately. Rinse skin with water/shower. Wash contaminated clothing before reuse.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 IF SKIN IRRITATION OCCURS: Get medical advice/attention.
 IF EYE IRRITATION PERSISTS: Get medical advice/attention.
 Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements-Storage

Store in a well-ventilated place. Keep container tightly closed.
 Store in a closed container.

Precautionary Statements-Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Silicic Acid (h ₂ sio ₃), Disodium Salt	< 5	6834-92-0
2- Butoxyethanol	< 5	111-76-2
Triphosphoric Acid, Pentasodium Salt	< 10	7758-29-4

4. FIRST-AID MEASURES

EYES: Rinse eyes gently with water for at least 15 minutes while holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

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

INGESTION: If fully conscious, drink a quart of water. If individual is drowsy or unconscious, do not give anything by mouth. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. If unconscious or in convulsions, take immediately to a hospital or a physician. If possible, do not leave individual unattended. **SEEK IMMEDIATE MEDICAL ATTENTION.**

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 runoff from fire control methods to sewers or waterways.

EXTINGUISHING MEDIA: Water spray. Water fog. Dry chemical. Carbon dioxide. Alcohol resistant foam. DO NOT USE direct water stream.

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: Oxides of Sodium and Silicon.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: See "Large Spill" below.

LARGE SPILL: Absorb spill with inert materials (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Use only non-combustible material for clean-up. Remove from surface by skimming or with suitable absorbents. Use clean, non-sparking tools to collect absorbent materials. Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Stay upwind of spill. Ventilate spill area. Collect spilled materials for disposal. Wear appropriate personal protective equipment. (See EXPOSURE CONTROLS / PERSONAL PROTECTION SECTION 8.)

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 for containment and clean-up

Should NOT be released into the environment.

Never return spill in original containers for re-use.

Observe all local, state, and federal regulations.

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 labelled hazardous precautions must be observed. Do not reuse empty container without commercial cleaning or reconditioning. FOR PERSONAL PROTECTION SEE SECTION 8.

STORAGE: Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
2 - Butoxyethanol	TWA	50	240	20	97	NL	NL
	STEL					NL	NL

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 or 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: If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. A NIOSH approved respirator for organic vapors is generally acceptable for concentrations up to 10 times the PEL. For higher concentrations, unknown concentrations and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Engineering controls are the preferred mean for controlling chemical exposure. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided with OSHA 29 CFR 1910.134.

PROTECTIVE CLOTHING: Wear suitable protective clothing.

WORK HYGIENIC PRACTICES: Always observe good hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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:	Not yet determined
Percent Volatile:	Not yet determined
Flash Point and Method:	Not yet determined
Auto Ignition Temperature:	Not yet determined
Vapor Pressure	Not yet determined
Vapor Density:	Not yet determined
Boiling Point:	212°F
Freezing Point:	Not yet determined
Melting Point:	None
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:	Not yet determined

10. STABILITY AND REACTIVITY

REACTIVITY:	Not reactive during normal conditions.
HAZARDOUS POLYMERIZATION:	Does not occur.
STABILITY:	Stable under recommended storage conditions.
CONDITIONS TO AVOID:	High heat, electric arcs, open flames, dilution (add product slowly to water, not water to product).
POSSIBILITY OF HAZARDOUS REACTIONS:	None under normal processing.
HAZARDOUS DECOMPOSITION PRODUCTS:	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: aldehydes, ketones, organic acids, carbon oxides.
INCOMPATIBLE MATERIALS:	Strong oxidizing agents, acids, and halogenated.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Causes severe irritation. Causes the following effects: discomfort, pain, excess blinking, tear production, marked excess redness of the conjunctivae, swelling of the conjunctivae, and chemical burns of the cornea. Corneal injury may be severe, extensive, and if not treated promptly, could result in permanent impairment of vision. May cause eye burns and permanent tissue damage.

SKIN ABSORPTION: Causes skin irritation, may be absorbed in toxic amounts through the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis.

ORAL LD50: Harmful if swallowed. Irritation to mouth, throat and stomach. Ingestion may result in nausea, vomiting, diarrhea and restlessness. May cause headache. May cause dizziness and drowsiness and/or stupor.

INHALATION LC50: May cause severe irritation of the respiratory tract with coughing, choking, pain with possibly burns of mucus membranes. This material can be extremely destructive to the tissue of the mucus membranes and respiratory systems.

CARCINOGENICITY

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

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Avoid contaminating waterways.

BIOACCUMULATION/ACCUMULATION: Low potential for adsorption in soil.

AQUATIC TOXICITY (ACUTE): Harmful to aquatic life.

GENERAL COMMENTS: Mobility: The product is water soluble and may spread in water systems.

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.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: NOT DOT HAZARDOUS AS PACKAGED

TECHNICAL NAME: DYNA CLEAN MACHINE 20

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

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No

PRESSURE GENERATING: No

REACTIVITY: No

ACUTE: Yes

CHRONIC: No

REPORTABLE INGREDIENTS: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations.

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).

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Silicic Acid (h2sio3), Disodium Salt	6834-92-0
2 - Butoxyethanol	111-76-2
Triphosphoric Acid, Pentasodium Salt	7758-29-4

TSCA REGULATORY: Listed

REGULATIONS

STATE REGULATIONS: Check state and local regulations.

CALIFORNIA PROPOSITION 65: This product does not contain any Proposition 65 chemicals.

CLEAN WATER ACT – (CWA) Section 112(r) (40 CFR 68.130): Hazardous substance

16. OTHER INFORMATION

Issue Date: 12-August-2015
Revision Date: 14-September-2015
Revision Note: New format

HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION	<input checked="" type="checkbox"/>	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