

Formula 202

Safety Data Sheet

SECTION 1: IDENTIFICATION

1.1 Product Identifiers:

Product Name(s): Formula 202, Formula 202 Ultrasonic Cleaning Solution

Product Number:

Brand: Design Technologies, Inc.

1.2 Supplier Contact Information:

Company: Design Technology, Inc.

Address: 768 Burr Oak Drive

Westmont, IL 60559

United States

Phone Number: +1 630-920-1300

1.3 *Recommended use of this product:* This product is designed to clean small engine parts in conjunction with an ultrasonic cleaning machine.

1.4 *Emergency telephone number:* 630-920-1300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Hazard Classification:

Not classified as a hazardous substance or mixture

2.2 Signal Word:

Warning

2.3 Hazard Statements:

Skin corrosion/irritation- Category 2

Serious eye damage/irritation- Category 2

2.4 GHS Hazard Pictograms



2.5 Precautionary statements:

P102

Keep out of the reach of children.

P262

Do not get in eyes, on skin, or on clothing.

P280

Wear protective gloves and eye protection.

P301+P330+P331+P312

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or physician if you feel unwell.

P302+P353+P333+P313

IF ON SKIN: Rinse skin with water/shower. If skin irritation or a rash occurs: Get medical advice/attention.

P305+P351+P338+P337+P313

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention.

2.5 Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values. 0 % of the mixture consists of component(s) of unknown toxicity.

2.6 Hazard(s) not otherwise classified (HNOC):

None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	Concentration	CAS Number
Water	77.5-83.5% w/w	7732-18-5
Lauramine Oxide	14-16% w/w	1643-20-5
Tetrasodium pyrophosphate	1.5-3.5% w/w	7722-88-5
Sodium metasilicate	1-3% w/w	6834-92-0

SECTION 4: FIRST AID MEASURES*4.1 Description of First Aid measures**In case of skin contact:*

Flush with water. Remove contaminated clothing and wash before reuse. Consult a physician if symptoms persist.
May cause minor skin irritation. Significant skin irritation may occur with prolonged exposure.

In case of eye contact:

Flush with water. Remove contact lenses if possible. Consult a physician if symptoms persist. May cause eye inflammation or irritation. Permanent eye damage may occur with prolonged exposure.

If swallowed:

Give water. Do not induce vomiting. Consult a physician or call poison control if symptoms persist.

If inhaled:

In case of inhalation of vapor or mist, if dizziness or lightheadedness develops, move to fresh air. Consult a physician if symptoms develop or persist.

4.2 Most important symptoms and effects, acute or chronic

Significant skin irritation or eye irritation or damage may occur with prolonged direct exposure.

SECTION 5: FIREFIGHTING MEASURES*5.1 Extinguishing media*

Use alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Caution: Do not use water jet extinguisher, as this may spread the fire.*5.3 Flammability*

Non flammable under typical conditions.

5.4 Special hazards arising from the substance or mixture during combustion

Carbon oxides, Nitrogen oxides

SECTION 6: ACCIDENTAL RELEASE MEASURES*6.1 Personal precautions, protective equipment, and emergency procedures*

Avoid contact with skin. For personal protection, see section 8.

6.2 Methods and materials for containment and clean up

In case of spill, isolate spill and use absorbent media. Clean area with water to ensure full removal of spill. Dispose of solution in accordance with local regulations. Avoid spillage into waterways or onto the ground.

SECTION 7: HANDLING AND STORAGE

7.1 Conditions for safe storage

Store in closed container away from heat sources and direct sunlight. Keep at room temperature (55-80° F). Keep away from children and pets. Use in a well ventilated area. Do not eat, drink, or smoke when handling this product.

7.2 Specific end use(s)

Apart from the uses mentioned in section 1, no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure Controls

Appropriate Engineering Controls: General industrial hygiene practice.

Personal Protective Measures: Goggles and chemical resistant gloves (i.e. nitrile rubber gloves) are recommended when handling concentrated solution. Use in a well ventilated area. Do not eat, drink, or smoke when handling this product.

Exposure Limits: No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

a) Appearance:	Clear/hazy-white liquid
b) Odor:	None
c) pH:	Approx. 10 (9.5-10.5)
d) Melting/Freezing point:	No data available
e) Boiling point:	~212° F
f) Flash point:	No data available
g) Evaporation rate:	No data available
h) Flammability:	No data available
i) LEL/UEL:	No data available
j) Vapor pressure	No data available
k) Vapor density	No data available
l) Density:	1.05 g/mL
m) Auto-ignition temperature	No data available
n) Decomposition temperature	No data available
o) Viscosity	No data available
p) Explosive properties	No data available
q) Oxidizing properties	No data available
r) Solubility:	Soluble in water

9.2 Other safety information

No data available

SECTION 10: REACTIVITY AND STABILITY*10.1 Reactivity:*

Safe for use with most metals and non-porous surfaces. However, may react with some metals, such as copper (oxidation). May react with acids (particulate formation) or strong oxidizing agents (solidification).

10.2 Thermal Stability:

Temperatures outside of normal range (55-80°F) may affect performance of product. No hazardous reactions or decomposition products known at any temperature.

10.3 Chemical Stability:

Stable under recommended storage conditions.

10.4 Corrosivity:

No data available.

10.5 Possibility of hazardous reactions:

No data available

10.6 Conditions to avoid:

Stable under recommended conditions for use and storage. Avoid extreme heat or cold.

10.7 Incompatible materials:

Incompatible with acids and strong oxidizing agents.

10.8 Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions- Carbon oxides, Nitrogen oxides.

Other decomposition products- No data available

In the event of fire: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION*11.1 Information on toxicological effects**Acute toxicity*

Oral LD50 (Rat) >1065 mg/kg

Dermal LD50 (Rabbit) >2000 mg/kg

Skin corrosion/irritation

Concentrate may be corrosive to skin and mucous membranes.

Serious eye damage/eye irritation

Concentrate may be damaging to the eyes.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

No component of this product is identified as probable, possible, or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Additional information

No data available

11.2 Disclaimer statement

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION*12.1 Toxicity*

May be toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

All components of the mixture are readily biodegradable. Phosphates produced during biodegradation may persist.

12.3 Bioaccumulative potential

No bioaccumulation is to be expected.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life. Contains phosphates which may contribute to the growth of phytoplankton in water. Avoid disposal in waterways or onto the ground.

SECTION 13: DISPOSAL CONSIDERATIONS*13.1 Waste treatment methods*

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

13.2 Additional considerations

Harmful to aquatic life. Contains phosphates which may contribute to the growth of phytoplankton in water. Avoid disposal in waterways or onto the ground.

SECTION 14: TRANSPORT INFORMATION*DOT (US)*

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

SECTION 15: REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards.

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SECTION 16: OTHER INFORMATION

Creation date: February 17, 2017

Revision date: July 25, 2019

Disclaimer:

This SDS is designed only as guidance for the product to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability or fitness for a particular purpose; or confers any intellectual property rights, including the right to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions.