

## 1. Identification

- A. Product name : RockHard USA PART A  
 Usage category : Oil paint
- B. Recommended Use and Restriction on Use  
 General use : For concrete  
 Restriction on use : Restricted to use other than recommended use
- C. Manufacturer / Supplier / distributor information  
 Company name : Xtreme Polishing Systems  
 Address : 2200 NW 32 St.#700, Pompano Beach, FL 33069  
 Emergency telephone number: (US CHEMTEL) 1(800)255-3924

## 2. Hazard identification

- A. GHS Classification  
Acute toxicity (inhalation: vapor) Category 3  
Carcinogenicity Category 1B  
Germ cell mutagenicity Category 1B  
Chronic aquatic toxicity Category 2  
Serious eye damage/irritation Category 2A  
Skin sensitization Category 1  
Skin corrosion/irritation Category 2  
Flammable liquids Category 4

B. GHS label elements

- Hazard symbols



- Signal words : DANGER
- Hazard statements :
- H331 Toxic if inhaled
  - H350 May cause cancer
  - H340 May cause genetic defects
  - H411 Toxic to aquatic life with long lasting effects
  - H319 Causes serious eye irritation
  - H317 May cause an allergic skin reaction
  - H315 Causes skin irritation
  - H227 Flammable liquid
- Precautionary statements
- Prevention
    - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
    - P271 Use only outdoors or in a well-ventilated area.
    - P201 Obtain special instructions before use.
    - P202 Do not handle until all safety precautions have been read and understood.
    - P280 Wear protective gloves/protective clothing/eye protection/face protection.
    - P273 Avoid release to the environment.
    - P264 Wash hands and contact areas thoroughly after handling.
    - P272 Contaminated work clothing should not be allowed out of the workplace.
    - P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. no smoking
  - Response
    - P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
    - P310 Immediately call a POISON CENTER or doctor/physician.
    - P321 Specific treatment
    - P308+P313 If exposed or concerned: Get medical advice / attention.
    - P391 Collect spillage.
    - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
    - P337+P313 If eye irritation persists, get medical attention / attention.
    - P302+P352 IF ON SKIN: Wash with plenty of soap and water.
    - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
    - P362+P364 Take off contaminated clothing and wash before reuse.
    - P332+P313 If skin irritation occurs: Get medical advice/attention.
    - P370+P378 In case of fire: Use Suitable extinguishing media for extinction(Refer Section MSDS 5).
  - Storage
    - P403+P233 Store in a well-ventilated place. Keep container tightly closed
    - P405 Store in a well-ventilated place.
  - Disposal
    - P501 Dispose of the contents and containers in accordance with waste-related laws.

C. Other hazards which do not result in classification : (NFPA Classification)

Chemical Name	NFPA grade	Health	Flammability	Reactivity	GHS Classification
2,2-Bis(4'-glycidyoxyphenyl)propane		2	2	0	H315, H317, H319, H411
Dodecylphenol, branched		NO DATA	NO DATA	NO DATA	NO DATA
Benzyl alcohol		2	1	0	H317, H331
Solvent naphtha (petroleum), light arom.		1	2	0	H227, H340, H350, H411

### 3. Composition/information on ingredients

Chemical Name	Trade names and Synonyms	CAS-NO	Content(%)
2,2-Bis(4'-glycidyoxyphenyl)propane	2,2-Bis(4'-glycidyoxyphenyl)propane	1675-54-3	86-96
Dodecylphenol, branched	Dodecylphenol, branched	121158-58-5	6-16
Benzyl alcohol	Benzyl alcohol	100-51-6	1-10
Solvent naphtha (petroleum), light arom.	Solvent naphtha (petroleum), light arom.	64742-95-6	0.1-4

### 4. First-aid measures

- A. Eye Contact : Flush exposed eyes with plenty of water for more than 15minutes.  
If irritation, pain, swelling, tears or glaring happens, take medical assistant immediately
- B. Skin Contact : Remove exposed clothing, and wash off exposed area with soap and water.  
If symptoms like irritation or pain occurs, take medical assistant immediately.  
Wash off with soap and water for more than 15 minutes. And take medical assistant immediately.
- C. Inhalation : Avoid from exposure, and move into an area with fresh air.  
If not breathing, perform the artificial respiration.  
If inhaled or swallowed, do not perform the inhalation phase of breathing  
Perform the artificial respiration, using the pocket mask with one way valves or other respiratory medical devices.  
If hard to breathe, administering oxygen  
Remove contaminated clothing and shoes, and isolate it.  
Take a medical assistant immediately.
- D. Ingestion Contact : Inducing vomit.  
If unconscious, do not induce vomiting. In case of vomiting, keep head down under hip to prevent lung inhalation.  
If ingested large quantity, take medical assistant.  
Take proper medical assistant by symptoms.  
It is need to be considered that early removal of some ingested material by gastric lavage must be weighed against potential complications of bleeding or perforation
- E. Notes to Physician : There is no specific antidote and take an appropriate medical treatment.

### 5. Fire-fighting measures

- A. Suitable (Unsuitable) extinguishing media  
 Suitable extinguishing media : Powder extinguishing agent, gaseous Extinguishing Agent, and regular foam.  
 (Unsuitable) extinguishing media : Avoid digestion using direct water.  
 Case of big fire : Spread large amount of the extinguishing agent as a mist form with staying against wind.  
 Stay away more than 800m to avoid tank explosion.  
 Use appropriate protective device depend on the situation.
- B. Specific hazards arising from the chemical  
 Pyrolysate : Carbon dioxide, toxic carbon compounds/Nitrogen compounds/sulfur compounds  
 Fire and Explosion danger : Risk of medium-sized fire.
- C. Special protective actions for fire-fighters  
 Personal Precautions, protective equipment : Gas mask or air respirator, heat resistant clothing, heat resistant helmet, heat resistant gloves, heat resistant boots  
 Emergency procedures : Use appropriate extinguishing agents to catch fire.  
 If there is no risk, moving containers away from fire.  
 Cooling containers with water long time after extinguish fire.  
 Block the area except for the fire-suppression personnel.

### 6. Accidental release measures

- A. Personal Precautions, protective equipment and emergency procedures  
 Personal Precautions, protective equipment : Gas mask for organic gases, other appropriate protective device / clothing / gloves.  
 Emergency procedures : Take an action to block the leakage if there is no risk.  
 Spray water to reduce amount of steam.  
 Do work with the personal protected devices such as gas mask for organic gases other appropriate protective devices / clothing / gloves.  
 Do not contact on the bare skin
- B. Environmental precautions  
 Atmosphere : Do install the local ventilations and full ventilation system  
 Using local ventilation to Minimize the exposure to worker.  
 Soil : Trap spilled material at bottom in deep water pockets, excavated holding areas or within sand bag barriers.  
 Use absorbent to collect the appropriate container.

- Under water : Use absorbent to collect the appropriate container.  
Collect spilled material with mechanic devices
- C. Methods and materials for containment and cleaning up
  - Small spill : Absorb for use sand or other non-combustible material.  
Move to appropriate container for disposal of spilled material collected.
  - Large spill : Prohibit access of unnecessary people, isolate hazard area to secure.  
Notify to central and local government, when emissions are above regulation.

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## 7. Handling and storage

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- A. Precautions for safe handling : Keep or handle followed by Dangerous goods Safety Management Act  
Ground for preventing the static discharge  
Seal the container for minimizing the petroleum steam  
Use local ventilations and a full ventilation system when handling
- B. Conditions for safe storage, including any incompatibilities : Because of evaporation and contamination concerns, airtight the container and store in a well-ventilated building.  
Avoid direct sunlight while storing outdoor.  
Storage temperature: 5 ~ 35 °C  
Avoid strong oxidizing agents, acid.  
Stored in an isolated place, freezing caution, high temperature body caution.

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## 8. Exposure controls/personal protection

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- A. Exposure Limits
  - 2,2-Bis(4'-glycidioxyphenyl)propane
    - ACGIH : NO DATA
    - Biological exposure indices : NO DATA
  - Dodecylphenol, branched
    - ACGIH : NO DATA
    - Biological exposure indices : NO DATA
  - Benzyl alcohol
    - ACGIH : NO DATA
    - Biological exposure indices : NO DATA
  - Solvent naphtha (petroleum), light arom.
    - ACGIH : NO DATA
    - Biological exposure indices : NO DATA
- B. Engineering Controls :
  - ▷ Do install the local ventilations and full ventilation system
  - ▷ Using local ventilation to Minimize the exposure to worker.
  - ▷ NO DATA
  - ▷ NO DATA
- C. Personal Protective Equipment
  - Respiratory protection : Respirators should be authorized by Korea Occupational Safety and Health Agency
  - Eye protection : Install washing facilities and an emergency washing facilities close to workplace.  
If there is possibility of direct contact or exposure to these substances should wear authorized safety glasses or mask.
  - Hand protection : Wear appropriate protective gloves
  - Skin protection : Wear cleanroom garment or appropriate protective clothing to prevent contamination

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## 9. Physical and chemical properties

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- A. Appearance : Liquid
- B. Odor : Specific Odor
- C. Odor threshold : NO DATA
- D. PH : NO DATA
- E. Melting point/Freezing point(°C) : NO DATA
- F. Initial Boiling Point/Boiling Ranges(°C) : 171°C
- G. Flash point(°C) : 74
- H. Evaporating Rate : NO DATA
- I. Flammability(solid, gas)(°C) : NON Flammable
- J. Upper/Lower Flammability or explosive limits : NO DATA
- K. Vapour pressure : NO DATA
- L. Solubility : Water insoluble
- M. Vapour density : NO DATA
- N. Specific gravity : 1.1 ± 0.3
- O. Partition coefficient of n-octanol/water : NO DATA
- P. Autoignition temperature(°C) : 425
- Q. Decomposition temperature(°C) : NO DATA

R. Viscosity : 120-130KU

S. Molecular weight : NO DATA

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## 10. Stability and reactivity

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A. Chemical stability : NO DATA

B. Possibility of hazardous reactions : Do not contact with heat, spark, flame or other flammable sources  
Avoid contaminants and friction

C. Conditions to avoid : Oxidation agent, metal and combustable materials

D. Hazardous decomposition products : Thermal decomposition products (carbon etc..)

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## 11. Toxicological information

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A. Information on the likely routes of exposure

- Respiratory tracts : Adverse lung effects, Dyspnoea, Hypothermia, Vomitting
- Oral : Vomitting, Diarrhea, Stomach pain, Irregular heartbeat
- Skin : Irritation, Burn, Adverse nerve effects
- Eye : Irritation, eye damage

B. Delayed and immediate effects and also chronic effects from short and long term exposure

- 2,2-Bis(4'-glycidylloxyphenyl)propane
  - Acute toxicity
    - Oral : LD50 15600 mg/kg Other (Other)
    - Dermal : LD50 20000 mg/kg Rabbit
    - Inhalation : LD50 20000 mg/kg Rabbit
  - Skin corrosion/irritation : weakstimulus(500mg, rabbit)
  - Serious eye damage/irritation : Severe irritation(2mg, 24시간, rabbit)
  - Respiratory sensitization : NO DATA
  - Skin sensitization : NO DATA
  - Carcinogenicity
    - IARC : Group 3
    - OSHA : NO DATA
    - ACGIH : NO DATA
    - NTP : NO DATA
    - EU CLP : NO DATA
  - Germ cell mutagenicity : NO DATA
  - Reproductive toxicity : NO DATA
  - STOT-single exposure : NO DATA
  - STOT-repeated exposure : NO DATA
  - Aspiration hazard : NO DATA
- Dodecylphenol, branched
  - Acute toxicity
    - Oral : NO DATA
    - Dermal : NO DATA
    - Inhalation : NO DATA
  - Skin corrosion/irritation : NO DATA
  - Serious eye damage/irritation : NO DATA
  - Respiratory sensitization : NO DATA
  - Skin sensitization : NO DATA
  - Carcinogenicity
    - IARC : NO DATA
    - OSHA : NO DATA
    - ACGIH : NO DATA
    - NTP : NO DATA
    - EU CLP : NO DATA
  - Germ cell mutagenicity : NO DATA
  - Reproductive toxicity : NO DATA
  - STOT-single exposure : NO DATA
  - STOT-repeated exposure : NO DATA
  - Aspiration hazard : NO DATA
- Benzyl alcohol
  - Acute toxicity
    - Oral : LD50 = 1230 mg/kg Rat
    - Dermal : LD50 = 2000 mg/kg Rabbit
    - Inhalation : LD50 = 2000 mg/kg Rabbit
  - Skin corrosion/irritation : usuallystimulus(100mg, 24H, rabbit)
  - Serious eye damage/irritation : Non-irritating(rabbit)
  - Respiratory sensitization : NO DATA
  - Skin sensitization : NO DATA
  - Carcinogenicity
    - IARC : NO DATA
    - OSHA : NO DATA
    - ACGIH : NO DATA
    - NTP : NO DATA
    - EU CLP : NO DATA
  - Germ cell mutagenicity : NO DATA
  - Reproductive toxicity : NO DATA
  - STOT-single exposure : NO DATA
  - STOT-repeated exposure : NO DATA

- Aspiration hazard : NO DATA
- Solvent naphtha (petroleum), light arom.
  - Acute toxicity
    - Oral : LD50 = 8400 mg/kg Rat
    - Dermal : LD50 > 2000 mg/kg Rabbit
    - Inhalation : LD50 > 2000 mg/kg Rabbit
  - Skin corrosion/irritation : weakstimulus(rabbit)
  - Serious eye damage/irritation : Mild irritant(rabbit)
  - Respiratory sensitization : NO DATA
  - Skin sensitization : Non-sensitizer (Guinea pig)
  - Carcinogenicity
    - IARC : NO DATA
    - OSHA : NO DATA
    - ACGIH : NO DATA
    - NTP : NO DATA
    - EU CLP : Carc. 1B
  - Germ cell mutagenicity : EU CLP: 1B (case containing less than 0.1% of the benzene in a weight ratio of the material not applied to the present classification)
  - Reproductive toxicity : EU CLP: 1B (case containing less than 0.1% of the benzene in a weight ratio of the material not applied to the present classification)
  - STOT-single exposure : Affecting the central nervous system. Inhalation of high concentrations vapors may cause loss of consciousness.
  - STOT-repeated exposure : NO DATA
  - Aspiration hazard : Harmful aspiration concerns

## 12. Ecological information

### A. Ecotoxicity

- 2,2-Bis(4'-glycidylloxyphenyl)propane
  - Fish : NO DATA
  - Crustaceans : NO DATA
  - Algae : NO DATA
- Dodecylphenol, branched
  - Fish : NO DATA
  - Crustaceans : NO DATA
  - Algae : NO DATA
- Benzyl alcohol
  - Fish : LC50 = 10 mg/ℓ 96 hr
  - Crustaceans : NO DATA
  - Algae : NO DATA
- Solvent naphtha (petroleum), light arom.
  - Fish : LC50 = 9.22 mg/ℓ 96 hr *Oncorhynchus mykiss*
  - Crustaceans : EC50 = 6.14 mg/ℓ 48 hr *Daphnia magna*
  - Algae : EC50 = 19 mg/ℓ 72 hr *Selenastrum capricornutum*

### B. Persistence and degradability

- 2,2-Bis(4'-glycidylloxyphenyl)propane
  - Persistence : NO DATA
  - Degradability : NO DATA
- Dodecylphenol, branched
  - Persistence : NO DATA
  - Degradability : NO DATA
- Benzyl alcohol
  - Persistence : log Kow = 1.1
  - Degradability : NO DATA
- Solvent naphtha (petroleum), light arom.
  - Persistence : log Kow = 2.1 ~ 6 (Estimates)
  - Degradability : BOD5/COD = 0.43

### C. Bioaccumulative potential

- 2,2-Bis(4'-glycidylloxyphenyl)propane
  - Bioaccumulative potential : NO DATA
  - Biodegradation : NO DATA
- Dodecylphenol, branched
  - Bioaccumulative potential : NO DATA
  - Biodegradation : NO DATA
- Benzyl alcohol
  - Bioaccumulative potential : NO DATA
  - Biodegradation : Biodegradability = 94 (%) 28 day (Aerobic, Activated Sludge)
- Solvent naphtha (petroleum), light arom.
  - Bioaccumulative potential : NO DATA
  - Biodegradation : NO DATA

### D. Mobility in soil

- 2,2-Bis(4'-glycidylloxyphenyl)propane
  - ▷ NO DATA
- Dodecylphenol, branched
  - ▷ NO DATA
- Benzyl alcohol
  - ▷ NO DATA
- Solvent naphtha (petroleum), light arom.
  - ▷ NO DATA

- E. Other adverse effects
  - 2,2-Bis(4'-glycidyoxyphenyl)propane
    - ▷ NO DATA
  - Dodecylphenol, branched
    - ▷ NO DATA
  - Benzyl alcohol
    - ▷ NO DATA
  - Solvent naphtha (petroleum), light arom.
    - ▷ NO DATA

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### 13. Disposal considerations

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- A. Disposal methods : Disposal material should keep in the airtight container, and consign according to Waste Material Management Act
- B. Special precautions for disposal : Prohibit the unauthorized disposal and incineration due to adversely affect natural ecosystems  
Discard it followed by appropriate regulations

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### 14. Transport information

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- A. UN number : 3082
- B. Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(2,2-Bis(4'-glycidyoxyphenyl)propane)
- C. Hazard class : 9
- D. Packing group : III
- E. Marine pollutant : be applicable
- F. Special precautions for user related to transport or transportation measures
  - EmS FIRE SCHEDULE : F-A
  - EmS SPILLAGE SCHEDULE : S-F

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### 15. Regulatory information

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- 2,2-Bis(4'-glycidyoxyphenyl)propane
  - Information of EU Classification
    - ▷ Classification : NO DATA
    - ▷ Risk Phrases : NO DATA
    - ▷ Safety Phrase : NO DATA
  - U.S. Federal regulations
    - ▷ OSHA PROCESS SAFETY (29CFR1910.119) : notapplicable
    - ▷ CERCLA Section 103 (40CFR302.4) : notapplicable
    - ▷ EPCRA Section 302 (40CFR355.30) : notapplicable
    - ▷ EPCRA Section 304 (40CFR355.40) : notapplicable
    - ▷ EPCRA Section 313 (40CFR372.65) : notapplicable
  - Rotterdam Convention listed ingredients : NO DATA
  - Stockholm Convention listed ingredients : NO DATA
  - Montreal Protocol listed ingredients : NO DATA
- Dodecylphenol, branched
  - Information of EU Classification
    - ▷ Classification : NO DATA
    - ▷ Risk Phrases : NO DATA
    - ▷ Safety Phrase : NO DATA
  - U.S. Federal regulations
    - ▷ OSHA PROCESS SAFETY (29CFR1910.119) : NO DATA
    - ▷ CERCLA Section 103 (40CFR302.4) : NO DATA
    - ▷ EPCRA Section 302 (40CFR355.30) : NO DATA
    - ▷ EPCRA Section 304 (40CFR355.40) : NO DATA
    - ▷ EPCRA Section 313 (40CFR372.65) : NO DATA
  - Rotterdam Convention listed ingredients : NO DATA
  - Stockholm Convention listed ingredients : NO DATA
  - Montreal Protocol listed ingredients : NO DATA
- Benzyl alcohol
  - Information of EU Classification
    - ▷ Classification : NO DATA
    - ▷ Risk Phrases : NO DATA
    - ▷ Safety Phrase : NO DATA
  - U.S. Federal regulations
    - ▷ OSHA PROCESS SAFETY (29CFR1910.119) : notapplicable
    - ▷ CERCLA Section 103 (40CFR302.4) : notapplicable
    - ▷ EPCRA Section 302 (40CFR355.30) : notapplicable
    - ▷ EPCRA Section 304 (40CFR355.40) : notapplicable
    - ▷ EPCRA Section 313 (40CFR372.65) : notapplicable
  - Rotterdam Convention listed ingredients : NO DATA
  - Stockholm Convention listed ingredients : NO DATA
  - Montreal Protocol listed ingredients : NO DATA
- Solvent naphtha (petroleum), light arom.
  - Information of EU Classification
    - ▷ Classification : NO DATA
    - ▷ Risk Phrases : NO DATA

- ▷ Safety Phrase : NO DATA
- U.S. Federal regulations
  - ▷ OSHA PROCESS SAFETY (29CFR1910.119) : notapplicable
  - ▷ CERCLA Section 103 (40CFR302.4) : notapplicable
  - ▷ EPCRA Section 302 (40CFR355.30) : notapplicable
  - ▷ EPCRA Section 304 (40CFR355.40) : notapplicable
  - ▷ EPCRA Section 313 (40CFR372.65) : notapplicable
- Rotterdam Convention listed ingredients : NO DATA
- Stockholm Convention listed ingredients : NO DATA
- Montreal Protocol listed ingredients : NO DATA

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## 16. Other information

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### A. Reference

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

- This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS,NLM, SIDS, IPCS

B. Issue date : 2021-03-17

C. Revision number and Last date revised : 4.(2022-08-23)

D. Other : " [WWW.XTREMEPOLISHINGSYSTEMS.COM](http://WWW.XTREMEPOLISHINGSYSTEMS.COM) "