

1. Identification

Product Identifier Orange Hammer

Other means of

identification 6170

Product code

Recommended use Heavy duty degreaser.

Recommended restrictions Professional use only. Use as directed

Manufacturer information

Company name Chemical Universe, Inc.

Address 1841 Vernon St.

North Kansas City, MO 64116

Telephone (816) 471-3602 **Fax** (816) 474-3302

Emergency phone number PERS (800) 633-8253

24-hour Emergency (800) 633-8253

2. Hazard(s) Identification

Physical hazards Not classified.

Health hazards Serious eye damage Category 1

Skin corrosion Category 1

Environmental hazards Not classified.

OSHA defined hazards

Label elements

None



Signal word DANGER

Hazard statement Causes severe skin burns and eye damage.

Precautionary statement

Prevention Wash hands and exposed skin thoroughly after handling. Do not breathe dust or mists.

Wear protective gloves/protective clothing/eye protection/face protection.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Storage Store locked up.

Disposal Dispose of contents/containers in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise

classified (HNOC)

None.

Supplemental information

None.



3. Composition/information on ingredients

Mixture Component(s)			
Chemical name	CAS number	%	
Sodium metasilicate	6834-92-0	1-10	
Nonionic surfactant	127087-87-0	1-3	
Sodium hydroxide	1310-73-2	1-3	
Other components below reportable levels		90-100	

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do

so. Immediately call a physician or transport to hospital.

Ingestion Rinse mouth. Get medical attention immediately. Do not induce vomiting.

Most important

symptoms/effects, acute and

delayed

Eye contact

Can cause serious eye damage. Can cause burning sensation in affected areas. Shortness of breath, respiratory tract irritation or damage. Hydrochloric acid is extremely destructive to

tissues of the mucous membranes and upper respiratory tract, eyes, and skin.

Indication of immediate medical attention and

Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

special treatment needed

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions

to protect themselves. Wash contaminated clothing before reuse. Use with extreme

caution.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂)

Unsuitable extinguishing

media

None reported

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed (hydrogen chloride gas).

Special protective equipment and precautions for

firefighters

fire.

Fire-fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards

No unusual fire or explosion hazards noted. The product is highly caustic and may react

Self-contained breathing apparatus and full protecting clothing must be worn in case of

with alkaline metals and copper to generate hazardous gases

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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 clean-up. Avoid inhalation of vapors or mists. 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. For personal protection, see section 8 of the SDS.



Methods and materials for containment and cleaning

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This product is fully miscible in water.

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into surface waterways, storm sewer, basements or confined areas. Following product recovery, flush area with water. Weak acid solution will aid with removal and neutralization of residual contamination

Small spills: Wipe up with absorbent material (e.g. cloth, wipes). Clean surface thoroughly with water and dilute vinegar to remove residual contamination.

Never return spills to original container for re-use. For waste disposal, see section 13 of the

Environmental precautions Avoid discharge into areas not consistent with package labeling.

7. Handling and storage

Precautions for safe handling Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged

exposure. Provide adequate ventilation. Wear appropriate personal protective equipment.

Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see

section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Value Components Type Sodium hydroxide PEL 2 mg/m³

US ACGIH Threshold Limit Values

Components Type Value Sodium hydroxide STEL 2 mg/m³

No information. **Biological limit values**

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level. It is recommended that users of this product perform a risk assessment to determine

the appropriate personal protective equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Neoprene and nitrile rubber are

recommended barrier materials

Other None.

In case of insufficient ventilation, wear suitable respiratory equipment where there is Respiratory protection

observed risk of inhalation of vapors or off-gases.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene When using do not smoke or use chewing tobacco. Always observe good personal hygiene considerations 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical State Liquid.
Color Orange.

Odor Citrus aromatic
Odor threshold Not available.
pH 13-13.5
Melting/freezing point Not available.

Initial boiling point and

boiling range

>212°F (100°C) estimated.

Flash point Not applicable.

Evaporation rate Not available.

Flammability Not available.

Flammability Limits

Upper Not available.
Lower Not available.
Vapor pressure Not available.
Vapor density Not available.

Specific gravity (water=1) 1.02
Solubility in water Soluble.

Partition coefficient Not available. Estimated at less than 0.78

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

10. Stability and reactivity

ReactivityThis product is stable and non-reactive under normal conditions of use. **Chemical stability**Material is stable under normal conditions. Store in a cool dark place.

Possibility of hazardous

reactions

Hazardous polymerization does not occur

Conditions to avoid Avoid storage in elevated temperatures.

Incompatible materials Bases, amines, metals.

Hazardous decomposition No hazardous decomposition products occur. In case of fire see section 5.

products

11. Toxicological information

Information on likely routes

of exposure

IngestionDo not ingest. May be harmful if swallowed.InhalationExpected to be a low inhalation hazard

Skin contact Can cause severe skin burns.



Can cause serious eye damage. Eve contact

Symptoms related to the physical, chemical and toxicological characteristics Burning sensation, coughing, wheezing, and shortness of breath. Sodium hydroxide is

extremely destructive to mucous membranes, eyes, and skin.

Acute toxicity May be harmful if swallowed.

Product Orange Thunder (CAS mixture)				
Exposure Classification	Route and Species	LD ₅₀ /LC ₅₀		
Acute	Inhalation/Rat	> 3.6 g/m ³ (estimated)		
Acute	Oral, rat	>14,300 mg/kg (estimated)		
*Estimates for product may be based on additional component data not shown				

Skin corrosion/irritation Can cause severe skin burns. Serious eye damage/ Can cause serious eye damage.

irritation

Respiratory sensitization Not considered a respiratory sensitizer. Skin sensitization Not considered a skin sensitizer.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not considered a carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not Listed

Reproductive toxicity No data available. Specific target organ toxicity No data available.

- single exposure

Specific target organ toxicity

No data available.

- repeated exposure

Aspiration hazard No data available.

12. Ecological information

Ecotoxicity				
Product Orange Thunder (CAS mixture)				
Aquatic Receptor	Species	Test Threshold		
Fish	Fathead minnow	$LC_{50} = 254 \text{ mg/L (estimated)}$		
Fish	Brachydanio rerio	$LC_{50} = 670 \text{ mg/L } 94-\text{hr (estimated)}$		
Crustacea	Daphnia Magna	$EC_{50} = 511 \text{ mg/L (estimated)}$		

^{*}Estimates for product may be based on additional component data not shown

Persistence and No data available. Chemicals of this class are not expected to be persistent in an open

degradability aerobic environment

Bio-accumulative potential Not data available. Components are highly water-soluble and not expected to accumulate

in dynamic biological systems

Mobility in soil No data available. Chemicals of these classes are expected to exhibit moderate to high

mobility in saturated and semi-saturated soils

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose

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



Local disposal regulations Dispose in accordance with all applicable regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the

> waste disposal company. As packaged, this product may meet criteria defining RCRA corrosive (D002) hazardous wastes when disposed. (40 CFR Part 261, Subpart C)

Waste from

residues/unused product

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

manner. (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal. Since emptied containers may contain product residue, follow label warnings

even after container is emptied.

14. Transport information

USDOT

UN number UN1760

UN proper shipping

name

Corrosive Liquids, n.o.s. (Contains: Sodium Hydroxide)

Transport hazard class(es)

Class 8 Subsidiary risk

Packaging group Ш Marine pollutant No

Special precautions for user

Transport in bulk according to

Annex II of MARPOL 73/78

and the IBC Code **DOT Label/Placard** Read safety instructions, SDS, and emergency procedures before handling.

Not intended to be transported in bulk.



15. Regulatory information

US federal regulations

SARA 302 Extremely hazardous substance Not listed. SARA 304 Emergency release notification Not listed

SARA 311/312 Hazard Categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No



SARA 313 (TRI reporting) Not listed

California Safe Drinking Water and Toxic Enforcement Act of 1986

Propositio This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to threshold determination and

toxins under Camornia Proposition 65 at levels which would be subject to threshold determination at

Safe Harbor notification (1/2019)

16. Other information, including date of preparation or last revision

 Issue date
 8/21/2017

 Revision date
 4/19/2019

Version # 2

HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0



ALKALINE

NFPA ratings Health: 2

Flammability: 0 Instability: 0



Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related 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

by the text.

Revision information 4/19/2019 General format update; Refine composition table, amend physical data;

Update toxicology thresholds and environmental fate information; Text clarification amendments Sections 5,6,8,9 and 12. PPE recommendation updated; California

Proposition 65 notice; HMIS and NFPA pictograms added.