

1. Identification

Product Identifier	Big Yellow	
Other means of identification		
Product code	CU-8150	
Recommended use	Sewer line cleaner.	
Recommended restrictions	Professional use only. Use only as directed	
Manufacturer information		
Company name	Chemical Universe, Inc.	
Address	1133 Saline St. North Kansas City, MO 64116	
Telephone	(816) 471-3602	
Fax	(816) 474-3302	
Emergency phone number	PERS 24 hour Emergency	(800) 633-8253 (800) 633-8253

2. Hazard(s) Identification

Physical hazards	Corrosive to Metals	Category 1
Health hazards	Specific Target Organ Toxicity (Single Exposure)	Category 3
	Serious eye damage	Category 1
	Skin corrosion	Category 1A
Environmental hazards	Not classified.	
Additional OSHA defined hazards	None.	
Label elements		

Signal word	DANGER
Hazard statement	Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation May be corrosive to metals
Precautionary statement	
Prevention	Keep in original packaging. Wash hands and exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not breathe dust or mists. Wear protective gloves/protective clothing/eye protection/face protection. Use outdoor or in well-ventilated areas
Response	IF SWALLOWED: Immediately call a poison center/doctor/medical professional. Specific treatment: see first aid instructions in section 4. 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. F INHALED: Remove person to fresh air and keep comfortable for breathing. Monitor for signs of breathing difficulty/edema IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. See qualified medical assistance, preferable an ophthalmic specialist.



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Storage	Store locked up. Store in a corrosion-resistant container with a resistant inner liner. Keep container tightly closed
Disposal	Dispose of contents/containers in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	None.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures		
Chemical name	CAS number	%
Sodium hydroxide	1310-73-2	>95
Other components below reportable levels		1-5

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. Neutralize burns with vinegar. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	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. If vomiting occurs keep head low to prevent stomach content from entering the lungs
Most important symptoms/effects, acute and delayed	Burning pain and serious corrosive skin damage. Can cause serious eye damage. Can cause burning sensation in affected areas. Shortness of breath, respiratory tract irritation or damage. Sodium hydroxide is extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes, and skin. Symptoms include redness, local swelling, stinging of the eyes and blurred vision. Delayed treatment can result in blindness
Indication of immediate medical attention and special treatment needed	Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
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 (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher. Excess water will spread this material and require control of run-off.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protecting clothing must be worn in case of 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.

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 up	This product is fully miscible in water. Large spills: Place the material in containers using a broom or shovel. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water and a dilute neutralizing solution such as vinegar or citric acid. Small spills: Sweep up and put into chemically-compatible containers (lined or plastic bags or pails). Clean surface thoroughly with dilute vinegar or similar weak acidic solutions to remove residual contamination.
	Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.
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). Store locked up.

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Type	Value
Sodium Hydroxide	PEL	2 mg/m ³

US ACGIH Threshold Limit Values

Components	Type	Value
Sodium Hydroxide	STEL	2 mg/m ³

Biological limit values

No information.

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 The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance

of their products. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Suggested protective materials: Nitrile and PVC rubber.

Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Depending upon exposure and use conditions, additional protection may be necessary to prevent skin contact including use of items such as chemical-resistant boots, aprons, arm covers, hoods and/or coveralls.
Respiratory protection	In case of dust forming and insufficient ventilation, wear suitable respiratory equipment. Minimum NIOSH N-95 certification recommended
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke or use chewing tobacco. Always observe good personal 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical State	Solid
Color	Yellow/orange
Odor	Characteristic irritating (dust).
Odor threshold	Not available.
pH	>14
Melting/freezing point	Not available.
Initial boiling point and boiling range	Not applicable.
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)	2.13
Solubility in water	Soluble
Partition coefficient (n-octanol/water)	Not relevant
Auto-ignition temperature	Not relevant
Decomposition temperature	Not available
Viscosity	Not available

10. Stability and reactivity

Reactivity	This 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 open containers. This product is hygroscopic and will attract water from airborne vapor



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Incompatible materials	Strong acids and oxidizers, ferrous and transition metals. Product will generate significant heat when mixed with water.
Hazardous decomposition products	No hazardous decomposition products occur. In case of fire see section 5.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Do not ingest. Harmful if swallowed.
Inhalation	Do not inhale. May cause damage to the upper respiratory tract (target organ). Prolonged inhalation will be harmful.
Skin contact	Causes severe skin burns. See section 8 for personal protection.
Eye contact	Causes serious eye damage. See section 8 for personal protection.
Symptoms related to the physical, chemical and toxicological characteristics	Burning sensation, coughing, wheezing, shortness of breath. Sodium hydroxide is extremely destructive to mucous membranes and upper respiratory tract, eyes, and skin.
Acute toxicity	May be harmful if swallowed.

Product Toxicology Detail - Big Yellow (CAS mixture)		
Exposure Classification	Route and Species	LD ₅₀
Acute	Oral, rat	500 mg/kg estimated

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

Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/ irritation	Causes serious eye damage.
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 – single exposure	Not classified.
Specific target organ toxicity – repeated exposure	No data available.
Aspiration hazard	No data available.

12. Ecological information

Ecotoxicity		
Product Big Yellow (CAS mixture)		
Aquatic Receptor	Species	Threshold
Fish	Fathead minnow (<i>Pimephales promelas</i>)	LC ₅₀ = 90 mg/L (estimated)
Crustacea	Daphnia magna	EC ₅₀ = 68 mg/L (estimated)

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

Persistence and degradability	No data available. This product will not persist in a dynamic open environment
Bio-accumulative potential	Not data available; Chemicals of this class are not expected to bio-accumulate
Partition coefficient n-octanol/water (log K_{ow})	Not relevant
Mobility in soil	No data available. Expected to highly mobile in soil due to complete solubility in water and ease of dissociation into ionic fractions

Other adverse effects

Harmful to aquatic and terrestrial life. The pH of this product may cause it to harm aquatic life in high concentrations. No other adverse environmental effects known (*i.e. ozone depleting substance, tropospheric ozone precursor, greenhouse gas emission, endocrine disruptor or other deleterious environmental effect*)

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 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. In product form the product is an industrial waste subject to restrictions. In solution, the product could be defined as a RCRA D002 characteristic hazardous waste (40 CFR Part 260)
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**DOT**

UN number	UN1759
UN proper shipping name	Corrosive solids, n.o.s. (contains: sodium hydroxide)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packaging group	III
Marine pollutant	No
Special precautions for user	Read safety instructions, SDS, and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not intended to be transported in bulk.
DOT Label/Placard	

**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 – Yes

SARA 313 (TRI reporting) Not listed.

California Proposition 65 - California Safe Drinking Water and Toxic Enforcement Act of 1986

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 Safe Harbor notification (1/2019)

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

Issue date	4/3/2015		
Revision date	1/14/2019 2/27/2020		
Version #	3		
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 2	NFPA ratings	Health: 3 Flammability: 0 Instability: 2

**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

Transportation information.

1/14/2019 Format revision, physical characteristic data update, Prop 65 statement Spill response amendment 1-14-2019
Remove acute tox category 4 bridge equation failure; Insert STOT (single exposure) Category 3. Inset corresponding language to all. 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; HMIS and NFPA pictograms added; Amended compatibility and storage precautions