



SAFETY DATA SHEET

1. Identification

Product Identifier	Oil & Grease Laundry Spotter	
Other means of identification		
Product code	CU-7071	
Recommended use	Solvent based laundry spotter.	
Recommended restrictions	Professional use only.	
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	(800) 633-8253
	24-hour Emergency	(800) 633-8253

2. Hazard(s) Identification

Physical hazards	Flammable Liquids	Category 4
Health hazards	Acute toxicity, oral	Category 4
	Skin irritation	Category 2
	Eye damage	Category 1
	Skin sensitization	Category 1
	Aspiration Hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment (chronic)	Category 2
OSHA defined hazards	None	
Label elements		



Signal word	DANGER
Hazard statement	Combustible liquid. May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways.

Precautionary statement	
Prevention	Keep away from flames and hot surfaces. No smoking. Wear protective gloves/eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of workplace.
Response	In case of fire: Use water fog, foam or carbon dioxide (CO ₂) to extinguish. Call a POISON CENTER/doctor/medical professional if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Specific treatment: See section 4 of the Safety Data Sheet. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.



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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor/medical professional.

IF SWALLOWED: Immediately call a POISON CENTER/doctor/medical professional. Do NOT induce vomiting.

Storage

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Dispose of contents/container 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	%
Distillates, petroleum, hydrotreated light	64742-47-8	40-60
2-butoxyethanol	111-76-2	3-9
D-limonene	5989-27-5	3-9
Other components below reportable levels		32-50

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.

Eye contact

Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur. Only induce vomiting at the instruction of medical personnel.

Most important symptoms/effects, acute and delayed

Dermatitis. Rash. Breathing vapors may cause minor respiratory irritation, headaches, drowsiness, dizziness, loss of coordination and fatigue.

Indication of immediate medical attention and special treatment needed

Ingestion can cause irritation of the digestive tract, nausea, diarrhea and vomiting. Provide general support measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to the hospital. 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.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO₂). Dry chemical powder, sand, or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source or ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. During fire, gases hazardous to health may be formed.



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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	In case of fire and/or explosion do not breathe fumes. 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	Flammable liquid and vapor.

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. Ensure adequate ventilation. Remove all sources of ignition. 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	Eliminate all ignition sources. Use only non-sparking tools. Take precautionary measures against static discharge. Keep combustibles away from spilled material. 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 waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small spills: Absorb with earth, sand, or other non-combustible material and transfer to container for later disposal. Clean surface thoroughly with detergent and water 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 release to the open environment. Avoid discharge into surface drainage paths, municipal sewers and other areas not consistent with package labeling.

7. Handling and storage

Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Do not smoke. Use explosion proof equipment and non-sparking tools. Take precautionary measures against static discharge. 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	Keep away from heat, sparks and open flame. Ground/bond container and equipment. 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)

Components	Type	Value
2-butoxyethanol	PEL	50 ppm

US ACGIH Threshold Limit Values

Components	Type	Value
2-butoxyethanol	STEL	20 ppm
Kerosene (petroleum)	TWA (skin)	200 mg.kg



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Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Species	Sampling Time
2-butoxyethanol	200 mg/g	Creatinine	Urine	End of shift.

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 below recommended exposure limits.

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. Depending on 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, coveralls, or encapsulated suits. Suggested protective materials: Nitrile and Santoprene rubber

Other

None.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

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

Liquid

Color

Colorless

Odor

Citrus

Odor threshold

Not available.

pH

Not available.

Melting/freezing point

Not available.

Initial boiling point and boiling range

300-410°F (148.9-210°C) estimated.

Flash point

150°F (66°C) estimated.

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)

0.88

Solubility in water

Insoluble.

Partition coefficient

Not available.



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(n-octanol/water)

Auto-ignition temperature Not available.
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 heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials Oxidizing agents, acids.
Hazardous decomposition products Carbon dioxide, carbon monoxide.

11. Toxicological information

Information on likely routes of exposure

Ingestion May be harmful if swallowed. Do NOT induce vomiting.
Inhalation Prolonged inhalation may be harmful.
Skin contact May cause skin irritation. For personal protection see Section 8
Eye contact Causes serious eye damage. Wear eye/face protection.
Symptoms related to the physical, chemical and toxicological characteristics Dermatitis. Rash.
Acute toxicity May be harmful if swallowed.

Product Oil & Grease Laundry Spotter (CAS mixture)		
Exposure Classification	Route and Species	LD ₅₀ / LC ₅₀
Acute	Oral, rat	4,100 mg/kg (estimated)
Acute	Inhalation, rat	> 6 mg/L (estimated)
*Estimates for product may be based on additional component data not shown		

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/ irritation Causes serious eye damage.
Respiratory sensitization Not available.
Skin sensitization May cause an allergic skin reaction.
Germ cell mutagenicity There is limited data available to indicate product or primary components present at greater than 0.1% are mutagenic or genotoxic in mice testing. Not an OSHA-listed carcinogen
Carcinogenicity This product is not expected to be a carcinogen.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not Listed
Reproductive toxicity This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity – single exposure Not classified.
Specific target organ toxicity – repeated exposure Not classified.
Aspiration hazard May be harmful or fatal if product enters airways.



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12. Ecological information

Ecotoxicity		
Product Oil & Grease Laundry Spotter (CAS mixture)		
Aquatic Receptor	Species	Test Thresholds
Crustacea	Daphnia magna (water flea)	EC ₅₀ (48-hr): 40 mg/L (estimated)
Fish	Oncorhynchus mykiss	LC ₅₀ (96-hr): 11 mg/L (estimated)
*Estimates for product may be based on additional component data not shown		

Persistence and degradability	2- butoxyethanol is considered readily biodegradable. The balance of hydrocarbons in this material are not readily biodegradable but are regarded as inherently biodegradable since their hydrocarbon components can be degraded by naturally-occurring microorganisms.
Bio-accumulative potential	Potential to bioaccumulation is expected to be low.
Mobility in soil	No data available. This class of chemical mixture is expected to exhibit limited mobility in saturated and semi-saturated soils. Due to oleophilic nature of a primary component, some level of phase separation can be expected with the oleophilic recoverable as a LNAPL at the piezometric surface of the water table
Other adverse effects	Harmful to aquatic life through chronic exposure. May cause long lasting harmful effects to aquatic life.

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.
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	Not regulated as dangerous goods (US-domestic)
UN/NA ID	NA1993 (non-domestic)
Hazard Class	3 (Non-domestic highway transport)





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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 – Yes

Pressure Hazard – No

Reactivity Hazard – No

SARA 313 (TRI reporting) 2-butoxyethanol (CAS # 111-76-2)

California Proposition 65



WARNING: This product can expose you to chemicals Methanol, Napthalene and Ethylene Glycol Monoethyl Ether, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

Issue date 3/17/2016
Revision date 9/23/2019
Version # 2
HMIS® ratings Health: 2
Flammability: 2
Physical hazard: 0

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	<input type="checkbox"/>

NFPA ratings Health: 2
Flammability: 2
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



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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

9/23/2019 Reduce oral toxicity category from 5 to 4 (definition); Update precaution statements and toxicity categories. 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. Changed NFPA 709 flammability classification (1 to 2)

Add non-domestic DOT shipping descriptions. Add ACGIH skin exposure TWA threshold (current) for kerosene component