☑ GHS Compliant

Safety Data Sheet

SDS No. 60A

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Cryptolyte®
General Use: Additive
Manufacturer: Smooth-On, Inc.,
5600 Lower Macungie Rd., Macungie, PA 18062
Phone (610) 252-5800, FAX (610) 252-6200
Emergency Contact: Chem-Tel
Domestic: 800-255-3924 International: 813-248-0585

Section 2 - Hazards Identification

Classification of the substance or mixture

Flammable liquids – Category 2
Skin irritation – Category 2
Reproductive toxicity – Category 2
Specific target organ toxicity – single exposure – Category 3 (central nervous system)
Specific target organ toxicity – repeated exposure – Category 2
Aspiration hazard – Category 1
Acute aquatic toxicity – Category 2

GHS Label elements, including precautionary statements

Pictogram(s):

Signal Word: Danger

Physical Hazards:	H225	Highly flammable liquid and vapor
Health Hazards:	H304	May be fatal if swallowed and enters airways
	H315	Causes skin irritation
	H336	May cause drowsiness or dizziness
	H361	Suspected of damaging fertility or the unborn child.
	H373	May cause damage to organs.
Environmental Hazards:	H401	Toxic to aquatic life
General Precautions:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P103	Read label before use.
Prevention Precautions:	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

	P233	Keep container tightly closed.
	P240	Ground and bond container and receiving equipment.
	P241	Use explosion-proof electrical/ventilating/lighting equipment.
	P242	Use non-sparking tools.
	P243	Take action to prevent static discharges.
	P260	Do not breathe dust/fume/gas/mist/vapors/spray.
	P264	Wash skin thoroughly after handling.
	P271	Use only outdoors or in a well-ventilated area.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P281	Use personal protective equipment as required.
Response Precautions:	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P308 + P313	IF exposed or concerned: Get medical advice/ attention.
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.
	P331	Do NOT induce vomiting.
	P332 + P313	If skin irritation occurs: Get medical advice/attention.
	P362	Take off contaminated clothing.
	P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage Precautions:	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.
Disposal Precautions:	P501	Dispose of contents/container according to local, state and federal laws.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

Section 3 - Composition / Information on Ingredients

The following ingredients are hazardous according to OSHA criteria.

CAS	Component	Concentration
108-88-3	Toluene	>90%

Section 4 - First Aid Measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.
After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

Flammable Classification: Flammable
Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam
Unusual Fire or Explosion Hazards: None known.

Fire-Fighting Instructions: Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.

Further information: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Only properly protected personnel should remain in the spill area; dike and contain spill; absorb or scrape up excess into suitable container for disposal. Stop or reduce discharge if it can be done safely**.**

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 7 - Handling and Storage

Handling Precautions: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition – no smoking. Take measures to prevent buildup of electrostatic charge. Use good general housekeeping procedures. Wash hands after use.

Storage Requirements: Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

Section 8 - Exposure Controls / Personal Protection

Control parameters for toluene:

OSHA – Table Z1	TWA	100 ppm (375 mg/m^3)
	STEL	150 ppm (560 mg/m^3)
OSHA – Table Z2	TWA	200 ppm
	CEIL	300 ppm
	Peak	500 ppm
ACGIH	TLV	20 ppm
NIOSH	TWA	100 ppm (375 mg/m^3)
	ST	150 ppm (560 mg/m^3)

Respiratory Protection: Should a respirator be needed, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with organic vapor cartridges.

Hand Protection: Wear chemically resistant liquid-tight gloves such as butyl rubber, neoprene or PVC. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Properly dispose of contaminated gloves after use. Wash and dry hands.

Eye Protection: Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Other Protective Clothing/Equipment: Wear clothing to protect against chemicals. Flame retardant antistatic protective clothing. Provide eye bath and safety shower.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

Section 9 - Physical and Chemical Properties

Appearance : liquid
Odor/Threshold: aromatic
pH: N.A. (non-aqueous)
Melting Point/Freezing Point: -135 °F
Low/High Boiling Point: 230 – 232 °F
Flash Point: 39.2 °F
Evaporation Rate: Not available
Flammability: Not available
UEL/LEL: 7%(V)/1.2%(V)

Vapor Pressure: 21.8 mmHg @ 68 °F
Vapor Density (Air=1): No data available
Specific Gravity (H_2O=1, at 4 °C): 0.86
Water Solubility: 0.5 g/l @ 59 °F
Partition coefficient: Not available
Auto-ignition temperature: 995.0 °F
Decomposition temperature: Not available
Viscosity: <100 centipoise
% Volatile: 95%

Section 10 - Stability and Reactivity

Stability: These products are stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization: Hazardous polymerization cannot occur.
Chemical Incompatibilities: Strong bases, and acids.

Hazardous Decomposition Products: Thermal oxidative decomposition can produce carbon oxides and traces of incompletely burned carbon compounds.

Section 11- Toxicological Information

Skin Corrosion/Irritation: Causes skin irritation (rabbit, 24 h)
Serious Eye Damage/Irritation: No eye irritation (rabbit, OECD TG 405)
Respiratory/Skin Sensitization: no data
Germ Cell Mutagenicity: no data
Carcinogenicity: no data
Reproductive Toxicity: damage to fetus possible, suspected human reproductive toxicant.
Specific Target Organ Toxicity – Single Exposure: no data
Specific Target Organ Toxicity – Repeated Exposure: no data
Aspiration Hazard: no data
Acute Toxicity:

LD50 Oral - > 5,000 mg/kg (rat)
LC50 Inhalation – 12.5 – 28.8 mg/l (rat)
LD50 Dermal - >5,000 mg/kg (rat)

Chronic Exposure: no data
Potential Health Effects – Miscellaneous: Lung irritation, chest pain, pulmonary edema. Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals. Central nervous system. Stomach irregularities based on human evidence.

Section 12 - Ecological Information

Toxicity: calculated

LC50 *Oncorhynchus mykiss* (rainbow trout) – 8.03 mg/l (96 h)
NOEC *Pimephales promelas* (fathead minnow) – 5.73 mg/l (7 d)
EC50 *Daphnia magna* (water flea) – 8.42 mg/l (24 h)
EC50 *Chlorella vulgaris* (fresh water algae) – 257.9 mg/l (24 h)
EC50 *Pseudokirchneriella subcapitata* (green algae) – 10.5 mg/l (24 h)

Persistence and Degradability: Readily biodegradable.
Bioaccumulative Potential:

Leuciscus idus (golden orfe) – 0.05 mg/l (3 d)
Bioconcentration factor (BCF): 90

Mobility in Soil: no data
Other Adverse Effects: no data

Section 13 - Disposal Considerations

Disposal: Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

Section 14 - Transport Information

DOT	IATA	IMDG
Proper Shipping Name: Toluene **UN:** 1294 **HC:** 3 **PG:** II	**Proper Shipping Name:** Toluene **UN:** 1294 **HC:** 3 **PG:** II	**Proper Shipping Name:** Toluene **UN:** 1294 **HC:** 3 **PG:** II EMS-No.: F-E,S-D

Section 15 - Regulatory Information

EPA Regulations:
This product contains the following chemicals that are subject to release reporting requirements under Section 313 of SARA Title III.

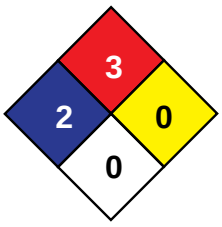
CAS	Component	Concentration
108-88-3	Toluene	>90%

TSCA Inventory Status (40 CFR710): All components of this formulation are listed in the TSCA Inventory.

California Proposition 65**:** This product contains a chemical which has been identified by the state of California to cause birth defects or other reproductive harm.

16 - Other Information

HMIS	
H	2
F	3
R	0



NFPA

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Glossary: ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

Disclaimer: The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.