Safety Data Sheet

	Salety Data Sheet	
Issuing Date	Revision Date	Revision Number
	1. PRODUCT AND COMPANY IDEN	TIFICATION
Product Name		
UN-No	UN1057	
Recommended Use	Lighters.	
Supplier Address Novelty, Inc. 351 W Muskegon Dr Greenfield IN 46140 US Phone: (317)462-3121 Emergency Contact: Chemtrec: 1-800-424-9300		
CCN# 16039		
	2. HAZARDS IDENTIFICATIO	DN
DANGER!		
DANGER!	Emergency Overview	
	MABLE LIQUID AND VAPOR. VAPOR MAY BE HARMFUL IF ABSORBED THROUGH May cause drowsiness and dizziness	
Appearance Clear to yellow	Physical State Compressed liquefied Gas.	gas, Odor Slight
OSHA Regulatory Status		
Potential Health Effects Principle Routes of Exposure	Inhalation. Skin contact. Eye contact.	
Acute Toxicity Eyes Skin Inhalation Ingestion	May cause irritation. Harmful in contact with skin. Readily forms high vapor concentrations Ma May be harmful if swallowed.	y cause drowsiness and dizziness.
Chronic Effects	Prolonged exposure may cause chronic effe concentrating and inhaling contents may be	
Main Symptoms	Inhalation of high vapor concentrations may tiredness, nausea and vomiting	cause symptoms like headache, dizziness,
Aggravated Medical Conditions	Neurological disorders. Central nervous syst	tem.

Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Isobutane	75-28-5	15-40
Propane	74-98-6	1 - 5
Pentane	109-66-0	0.1 - 1
Oxirane, 2,3-dimethyl-	3266-23-7	< 0.1
Ethane	74-84-0	< 0.1
1-Butene	106-98-9	< 0.1

4. FIRST AID MEASURES

General Advice	In case of injury caused by fire: Flush with plenty of water immediately. Continue flushing during transport to hospital or medical center
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin Contact	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
Inhalation	Move victim to fresh air. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing. Call a physician or Poison Control Center immediately.
Ingestion	Not an expected route of exposure. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician or Poison Control Center immediately.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment. Remove all sources of ignition.

5. FIRE-FIGHTING MEASURES

Flammable Properties	EXTREMELY FLAMMABLE Containers may explode when heated. Vapors are flammable
Flash Point	Not determined.
Suitable Extinguishing Media	Dry chemical or CO ₂ . Water spray or fog.
Uniform Fire Code	Compressed Gas: Flammable
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire. DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.
Hazardous Combustion Products	Carbon oxides.
Explosion Data Sensitivity to Mechanical Impact	No.
Sensitivity to Static Discharge	Yes.

Specific Hazards Arising from the Chemical

Will be easily ignited by heat, sparks or flames. Will form explosive mixtures with air. Vapors from liquefied gas are initially heavier than air and spread along ground. Vapors may travel to source of ignition and flash back. Ruptured cylinders may rocket.

Protective Equipment and Precautions for Firefighters

Move containers from fire area if you can do it without risk. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	Health Hazard 1	Flammability 4	Stability 0	Physical and Chemical Hazards -
	6. AC	CIDENTAL RELEAS	E MEASURES	
Personal Precautio	equipmer due to da	nt used when handling the inger of explosion Pay atte dequate ventilation. Keep	product must be ground ention to flashback. Use	or flames in immediate area). All led. Do not attempt to stop leak, personal protective equipment. pwind of spill/leak. Contents under
Environmental Pre		pilled material. Prevent sp	•	. Avoid allowing water runoff to h sewers, ventilation systems and
Methods for Conta	inment If possible has dispe		so that gas escapes rath	er than liquid. Isolate area until gas
Methods for Clean	silica gel,	Do not direct water at spill or source of leak. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.		
	7	. HANDLING AND S	TORAGE	
Handling	eyes. Avo		sts. Keep away from ope	ety practice. Avoid contact with en flames, hot surfaces and sources inerate cans.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers. Keep in an area equipped with sprinklers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isobutane 75-28-5	STEL: 1000 ppm	N/A	N/A
Propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m ³	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³
Pentane 109-66-0	TWA: 600 ppm	TWA: 1000 ppm TWA: 2950 mg/m ³ (vacated) TWA: 600 ppm (vacated) TWA: 1800 mg/m ³ (vacated) STEL: 750 ppm (vacated) STEL: 2250 mg/m ³	IDLH: 1500 ppm Ceiling: 610 ppm 15 min Ceiling: 1800 mg/m ³ 15 min TWA: 120 ppm TWA: 350 mg/m ³
Ethane 74-84-0	TWA: 1000 ppm		
1-Butene 106-98-9	TWA: 250 ppm		

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment Eye/Face Protection Skin and Body Protection Respiratory Protection	Safety glasses with side-shields. Protective gloves. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Provide regular cleaning of equipment, work area and clothing. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Threshold pH	Clear to yellow. No information available No information available	Odor Physical State	Slight. Compressed liquefied gas Gas
Flash Point Decomposition Temperature Melting Point/Range	No information available. No information available ‴芭 í 榆^* ¦^^• ǿ	Autoignition Temperature Boiling Point/Range////////////////////////////////////	No information available ∰∄ ૠ^* ¦^^∙ ÆÁ
Flammability Limits in Air	No information available	Explosion Limits	No information available
Water Solubility Evaporation Rate Vapor Density	Insoluble in water. No information available 城市白海道孙佑/姚姚////	Solubility///////////////////////////////////	

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions. Heating may cause an explosion
Incompatible Products	No materials to be especially mentioned.
Conditions to Avoid	Extremes of temperature and direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.
Hazardous Decomposition Products	Carbon oxides.
Hazardous Reactions	Hazardous polymerization does not occur
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethane	-	-	= 658 mg/L (Rat)4 h
Propane	-	-	= 658 mg/L (Rat)4 h
Isobutane	-	-	= 658 mg/L (Rat)4 h
1-Butene	-	-	= 658 mg/L (Rat)4 h
Pentane	-	= 3000 mg/kg (Rabbit)	= 364 g/m³(Rat) 4 h

Chronic Toxicity

Chronic Toxicity

Prolonged exposure may cause chronic effects. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Target Organ Effects

Central nervous system (CNS).

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms Daphnia Magna (Water Flea)
Pentane		LC50: 9.87 mg/L (96 h)	EC50: 9.74 mg/L (48 h)
		Oncorhynchus mykiss	Daphnia magna
		LC50: 9.99 mg/L (96 h)	
		Lepomis macrochirus	
		LC50: 11.59 mg/L (96 h)	
		Pimephales promelas	

Chemical Name	Log Pow
Isobutane	2.88
Propane	2.3
Pentane	3.39
Ethane	2.8
1-Butene	2.42

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13. DISPOSAL CONSIDERATIONS

Waste Disposal MethodsThis material, as supplied, is a hazardous waste according to federal regulations (40 CFR
261).

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D001

California Hazardous Waste Codes 213

Chemical Name	California EHW	California Carc	California Hazardous Waste	California Waste - Part 2
Pentane			Toxic	
			Ignitable	

14. TRANSPORT INFORMATION

DOT	Emergency Response Guide Number	115
<u></u>	Description	UN1057, LIGHTERS, 2.1
<u>TDG</u>	Description	UN1057, LIGHTER REFILLS, 2.1
<u>MEX</u>	Description	UN1057 LIGHTERS, 2.1
<u>ICAO</u>	Description	UN1057, LIGHTERS, 2.1
<u>IATA</u>	Description	UN1057, LIGHTERS, 2.1
IMDG	/IMO Description	UN1057, LIGHTERS, 2.1

International Inventories

TSCA	Complies
DSL	Not determined

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
1,2,3-Propanetricarboxylic			Х	Х	Х
acid, 2-hydroxy-, manganese					
salt					
Butane	Х	Х	Х		

International Regulations

Mexico - Grade

No information available.

Chemical Name	Carcinogen Status	Exposure Limits
Butane		Mexico: TWA 800 ppm
		Mexico: TWA 1900 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class A Compressed gases

B1 Flammable gas



16. OTHER INFORMATION

Issuing Date

Revision Date

Revision Note

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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 relates 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 in the text

End of Safety Data Sheet