

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements

U.S. Department of Labor

Occupation Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY ROYAL FLUSH (120530)	<i>Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.</i>
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Section I

D.O.T. Hazard Class: ORM-D

Manufactured For: Beaver Research Company	Emergency Telephone Number 1-800-255-3924 (Chem-Tel)
Address (Number, Street, City, State, and ZIP Code) 3700 E. Kilgore Road, Portage, MI 49002	Telephone Number For Information 269-382-0133
NFPA/HMIS RATINGS: Health: 2/2 Flammability: 1/1 Reactivity: 0/0 Special/Personal Protection: B/B	Date Prepared 06/08/04
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	OSHA PEL	ACGIH TLV	Carcinogen Ref. Source**	SARA III LIST
Isopropanol	67-63-0	400ppm	400ppm	d	No
1-Bromopropane	106-94-5	Not est.	Not est.	d	No
Carbon Dioxide	124-38-9	5000ppm	5000ppm	d	No

*Manufacturer's suggested Exposure Limit= 25 ppm over 8 hours

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1) Concentrate Only	1.30
Vapor Pressure (psig @ 70°F) Aerosols	80-100	Water Reactive	No
Vapor Density (AIR = 1)	N/E	Evaporation Rate (= 1)	N/E
Solubility in Water None	pH	N/A	
	Total VOC	95%	

Appearance and Odor
Dual mist/stream spray with strong ethereal odor.

Section IV - Fire and Explosion Hazard Data

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) NOT CATEGORIZED AS FLAMMABLE	Flammability Limits in Air by % in Volume: (bromopropane)	LEL 3.0	UEL 8.0
Flash Point And Method Used (Non-aerosols): N/A	Auto Ignition Temperature (bromopropane) 490°C / 914°F		
Extinguisher Media: Foam, dry chemical, carbon dioxide.			
Special Fire Fighting Procedures Self-contained breathing apparatus.			
Unusual Fire and Explosion Hazards Do not expose aerosols to temperatures above 130°F or the container may rupture.			

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	N/A
	Stable		
Incompatibility (Materials to Avoid) Strongalkalies, oxidizers and reactive metals (i.e. potassium, sodium, etc.)			
Hazardous Decomposition or Byproducts Carbon dioxide, carbon monoxide, hydrogen bromide, bromine, hydrogen fluoride and trace amounts of hydrogen chloride.			
Hazardous	May Occur	Conditions to Avoid	Open flame, welding arcs, heat, sparks.
Polymerization	Will Not Occur		

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	No

Health Hazards (Acute and Chronic)

Acute Effects: Eyes: Slight irritation with tearing and redness.**Skin:** Slight irritation due to defatting of skin, itching, redness.**Inhalation:** Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, nausea, headache, possible unconsciousness or asphyxiation.**Ingestion:** ASPIRATION HAZARD. May cause chemical pneumonia if aspirated into lungs from vomiting. Gastrointestinal irritation.**Chronic Effects:** (Effects due to excessive exposure to the raw materials of this mixture) May cause adverse liver, kidney, respiratory system and Central Nervous System effects.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure

See above "Health Hazards".

Medical Conditions Generally Aggravated by Exposure

May aggravate existing eye, skin, or upper respiratory conditions.

Emergency and First Aid Procedure

Eyes: Flush with plenty of water for at least 15 minutes. If irritated, seek medical attention.**Skin:** Wash with soap and water. If irritated, seek medical attention.**Inhalation:** Remove to fresh air. Resuscitate if necessary. Get medical attention.**Ingestion: DO NOT INDUCE VOMITING. Aspiration hazard.** Get immediate medical attention.**Section VII - Precautions for Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled

Absorb spilled liquid with inert material. Place in closed drum for proper disposal. DO NOT FLUSH TO SEWER.

Dispose of according to State, Federal and Local regulations.

Waste Disposal Method

Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

Precautions to be Taken in Handling and Storage

Do not puncture or incinerate containers. Do not store at temperatures above 130°F.

Other Precautions

KEEP OUT OF REACH OF CHILDREN. Avoid food contamination.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

If vapor concentration exceeds TLV, use respirator approved by NIOSH approved for organic vapor.

Ventilation	Local Exhaust	Adequate ventilation to keep vapor concentration below TLV	Special	N/A
	Mechanical(General)	N/A	Other	N/A

Protective Gloves

Neoprene

Eye Protection

Safety glasses recommended.

Other Protective Clothing or Equipment

None.

Work/Hygienic Practices

Wash with soap and water before handling food.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only