

# Safety Data Sheet

**MARSH®**  
**P-Solvent**  
**20947**



**MARSH®**

Page	: 1 / 8
Version	: GHS (US) ENGLISH
Version number	: 2
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : 20947  
**Product code** : Product code: 20947, 28379, QM20947  
**CAS number** : Not applicable.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Material uses** : Industrial applications: Use for cleaning the Marsh printer and printer components only.

### 1.3 Details of the supplier of the safety data sheet

Website: [www.videojet.com](http://www.videojet.com)  
Email: [FluidsSupport@videojet.com](mailto:FluidsSupport@videojet.com)

Videojet Technologies Inc., 1500 Mittel Boulevard, Wood Dale, IL, 60191-1073 U.S.A  
Tel: 1-800-843-3610 Fax: 1-800-582-1343

### 1.4 Emergency telephone number

**Medical** ☎ 3E: (US) +1 866 519 4752  
3E Code: 334466  
**Transporters** ☎ CHEMTREC: (US) +1 800 424 9300  
CHEMTREC Code: CCN 23846

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### GHS Classification

Not classified.

**Ingredients of unknown toxicity** : Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 0%.  
**Ingredients of unknown ecotoxicity** : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 0%.

### 2.2 Label elements

#### GHS label elements

None.

### 2.3 Other hazards

**Other hazards which do not result in classification** :  None known.

## SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	CAS #	%	GHS Classification
2-(2-butoxyethoxy)ethanol	112-34-5	1 - <3	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 6.4 Reference to other sections

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.


### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
 2-(2-butoxyethoxy)ethanol	<b>ACGIH TLV (United States, 3/2020).</b> TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Hand protection** : Recommended: EN374 K  
May be used (Short term exposure): Latex gloves. Nitrile gloves. Use gloves only once. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.  
Recommended: organic vapor filter (Type A)

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Color** : Red. [Light]
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 9
- Melting point/freezing point** : May start to solidify at the following temperature: 0 °C. Weighted average: -2 °C.
- Initial boiling point and boiling range** : Lowest known value: 100 °C. Weighted average: 103 °C.
- Flash point** : Not applicable.

<b>Evaporation rate (butyl acetate = 1)</b>	: Highest known value: 0.4. Weighted average: 0.3.
<b>Flammability (solid, gas)</b>	: Not applicable. ( Liquid )
<b>Upper/lower flammability or explosive limits</b>	: Not applicable.
<b>Vapor pressure</b>	: Highest known value: 23 mm Hg at 20°C. Weighted average: 23 mm Hg at 20°C.
<b>Vapor density</b>	: Lowest known value: <0.6. Highest known value: >5.6. (Air = 1)
<b>Relative density (Water = 1)</b>	: 1.01
<b>Solubility(ies)</b>	: Not available.
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not applicable.
<b>Decomposition temperature</b>	: Thermally stable.
<b>Viscosity</b>	: Not available.
<b>Explosive properties</b>	: Not applicable. Not classified.
<b>Oxidizing properties</b>	: Not applicable. Not classified.

## 9.2 Other information

<b>Volatility (w/w)</b>	: 99 %.
<b>VOC Volatility (w/w)</b>	: 2 %.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

No specific data.

### 10.5 Incompatible materials

No specific data.


### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
 (2-butoxyethoxy)ethanol	LD50 Dermal LDLo Oral	Rabbit Rat	2764 mg/kg >5000 mg/kg	- -

**Conclusion/Summary** : Not classified. No known significant effects or critical hazards.

#### Irritation/Corrosion

##### **Conclusion/Summary**

**Skin** : Not classified. No known significant effects or critical hazards.

**Eyes** : Not classified. No known significant effects or critical hazards.

**Respiratory** : Not classified. No known significant effects or critical hazards.

### **Sensitization**

#### **Conclusion/Summary**

**Skin** : Not classified. No known significant effects or critical hazards.

**Respiratory** : Not classified. No known significant effects or critical hazards.

### **Mutagenicity**

**Conclusion/Summary** : Not classified. No known significant effects or critical hazards.

### **Carcinogenicity**

**Conclusion/Summary** : Not classified. No known significant effects or critical hazards.

### **Reproductive toxicity**

**Conclusion/Summary** : Not classified. No known significant effects or critical hazards.

### **Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
Not classified. No known significant effects or critical hazards.			

### **Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
Not classified. No known significant effects or critical hazards.			

### **Aspiration hazard**

**Conclusion/Summary** : Not classified. No known significant effects or critical hazards.

### **Potential chronic health effects, Other**

**Conclusion/Summary** : No known significant effects or critical hazards.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol	Acute EC50 >100 mg/l	Algae - Desmodesmus subspicatus	96 hours
	Acute EC50 4950 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus - 33 to 75 mm	96 hours
	Chronic NOEC >100 mg/l	Algae - Desmodesmus subspicatus	96 hours

### **12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
Not available.				

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-(2-butoxyethoxy)ethanol	-	-	Readily

### **12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	low

### **12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### **12.5 Results of PBT and vPvB assessment**

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.							

## 12.6 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : None.

## SECTION 14: Transport information

	UN	IMDG	IATA	US DOT
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

### 14.6 Special precautions for user

No special measures required.

### 14.7 Transport in bulk according to IMO instruments

Not available.

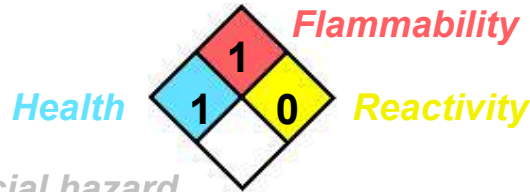
## SECTION 15: Regulatory information

**CERCLA: Hazardous substances.** : The following components are listed: 2-(2-butoxyethoxy)ethanol (1 - <3%)

**SARA 313** : The following components are listed: 2-(2-butoxyethoxy)ethanol (1 - <3%)

**California Prop. 65** : This product contains a chemical or chemicals known to the state of California to cause cancer. The following components are listed: sodium 2-biphenylate (<0.01%).

National Fire Protection Association (U.S.A.) :



special hazard

**Tariff Code - harmonized system** : 3402.90 surface-active preparations, washing preparations (including auxiliary washing preparations) and cleaning preparations, whether or not containing soap, other than those of heading 3401: Other.  
 USA ...50.30  
 EU ...90.00

**Heavy Metals** : Total concentration: Pb, Hg, Cd, Cr(VI) < 100 ppm

**California, VOC Content** : 1007 grams volatile organic / liter less water or exempt volatile.

Chemical Weapons Convention List Schedule I Chemicals	Chemical Weapons Convention List Schedule II Chemicals	Chemical Weapons Convention List Schedule III Chemicals
Not listed	Not listed	Not listed

**SECTION 16: Other information**

- Revision comments** : ▶ Indicates information that has changed from previously issued version.
- Abbreviations and acronyms** :
  - ATE = Acute Toxicity Estimate
  - BCF = Bioconcentration Factor
  - GHS = Globally Harmonized System of Classification and Labelling of Chemicals
  - IATA = International Air Transport Association
  - IBC = Intermediate Bulk Container
  - IMDG = International Maritime Dangerous Goods
  - LogPow = logarithm of the octanol/water partition coefficient
  - MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
  - UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

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