

# Safety Data Sheet

**Videojet®**  
**Flush/Wash**  
**16-89SR**



Page	: 1 / 10
Version	: GHS (US) ENGLISH
Version number	: 6.04
Date of issue/ Date of revision	: 12/6/2023
Date of previous issue	: 8/11/2023 (6.03)

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name** : 16-89SR  
**Product code** : Product code: 16-89SR44  
**CAS number** : Not applicable.

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

**Material uses** : Industrial applications: Flush/Wash fluid for use in a continuous ink jet process with an array-type printhead.

### 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 (AU): +61 1800 686 951 / +61 02 8036 3166  
3E Code: 334466 / +64 0800 764 766  
**Transporters** ☎ 3E (AU): +61 1800 686 951 / +61 02 8036 3166  
3E Code: 334466 / +64 0800 764 766

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### GHS Classification

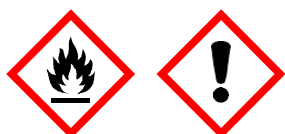
1) FLAMMABLE LIQUIDS - Category 2 2) EYE IRRITATION - Category 2A 3) SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.
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**Ingredients 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



Danger. Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. Avoid breathing vapor. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF INHALED: Call a POISON CENTER or physician if you feel unwell. If eye irritation persists: Get medical attention. Keep container tightly closed. Store in a well-ventilated place.

**Hazardous ingredients** : 1) butanone

### 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
1) butanone	78-93-3	70 - <80	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A
2) ethanol	64-17-5	15 - <25	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2B

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. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

<b>Inhalation</b>	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: No specific data.
<b>Ingestion</b>	: 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 dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

**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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilled product. 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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 a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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
butanone	<p><b>OSHA PEL 1989 (United States, 3/1989).</b>                      TWA: 200 ppm 8 hours.                      TWA: 590 mg/m<sup>3</sup> 8 hours.                      STEL: 300 ppm 15 minutes.                      STEL: 885 mg/m<sup>3</sup> 15 minutes.  <b>OSHA PEL (United States, 5/2018).</b>                      TWA: 200 ppm 8 hours.                      TWA: 590 mg/m<sup>3</sup> 8 hours.</p>
ethanol	<p><b>OSHA PEL 1989 (United States, 3/1989).</b>                      TWA: 1000 ppm 8 hours.                      TWA: 1900 mg/m<sup>3</sup> 8 hours.  <b>OSHA PEL (United States, 5/2018).</b>                      TWA: 1000 ppm 8 hours.</p>

TWA: 1900 mg/m<sup>3</sup> 8 hours.

**Biological exposure indices**

Product/ingredient name	Exposure indices
butanone	<b>ACGIH BEI (United States, 1/2022)</b> BEI: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.

**Recommended monitoring procedures** : 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** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**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 B, EN374 A  
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** : Clear.
- Odor** : Not available.
- Odor threshold** : Estimated.: ≥ 10 ppm (butanone).
- pH** : Not applicable.
- Melting point/freezing point** : Estimated.: ≤ -87 °C (butanone).
- Initial boiling point and boiling range** : Estimated.: ≥ 78 °C (ethanol).
- Flash point** : -6 °C [ASTM D 56]
- Evaporation rate (butyl acetate = 1)** : Estimated.: ≤ 7 [butyl acetate = 1] (butanone).

<b>Flammability (solid, gas)</b>	: Not applicable. ( Liquid )
<b>Upper/lower flammability or explosive limits</b>	: Estimated.: $\geq 2\%$ (butanone). Estimated.: $\leq 19\%$ (ethanol).
<b>Vapor pressure</b>	: Estimated.: $\leq 11$ kPa (79 mm Hg) at 20°C (butanone).
<b>Vapor density</b>	: Estimated.: $\geq 1.6$ [Air = 1] (ethanol).
<b>Relative density (Water = 1)</b>	: 0.8 [OECD 109]
<b>Solubility(ies)</b>	: Not available.
<b>Partition coefficient: n-octanol/water</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: Estimated.: $\geq 404$ °C (butanone).
<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.
<b><u>Particle characteristics</u></b>	
<b>Median particle size</b>	: Not applicable.

## 9.2 Other information

**Volatility (w/w)** :99 %.

**VOC Volatility (w/w)** :99 %.

## 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

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

### 10.5 Incompatible materials

Reactive or incompatible with the following materials:  
oxidizing materials

### 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
butanone	LC50 Inhalation Vapor	Rat	23.5 mg/l	8 hours
	LD50 Dermal	Rabbit - Male	>8000 mg/kg	-
ethanol	LD50 Oral	Rat	3460 mg/kg	-
	LC50 Inhalation Vapor	Rat	>117 mg/l	4 hours
	LD50 Dermal	Rabbit	>15800 mg/kg	-
	LD50 Oral	Rat	10470 mg/kg	-

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

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanol	Eyes - Irritant Skin - Primary dermal irritation index (PDI)	Rabbit Rabbit	- 0	- 4 hours	21 days 14 days

**Conclusion/Summary**

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

**Eyes** : Causes serious eye irritation.

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

**Sensitization**

Product/ingredient name	Route of exposure	Species	Result
butanone	skin	Guinea pig	Not sensitizing
ethanol	Respiratory skin	Rat Mouse	Not sensitizing Not sensitizing

**Conclusion/Summary**

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

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

**Mutagenicity**

Product/ingredient name	Test	Experiment	Result
ethanol	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal	Negative

**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
butanone	Category 3	-	Narcotic effects

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

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**

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	Sub-chronic NOAEL Oral	Rat	1730 mg/kg	90 days

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

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
butanone	Acute EC50 2029 mg/l Fresh water	Algae - <i>Pseudokirchnerella subcapitata</i>	96 hours
	Acute EC50 308 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 2993 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Chronic NOEC 1240 mg/l Fresh water	Algae - <i>Pseudokirchnerella subcapitata</i>	96 hours
ethanol	Acute EC50 275 mg/l Fresh water	Algae - <i>Chlorella vulgaris</i>	72 hours
	Acute LC50 5012 mg/l Fresh water	Daphnia - <i>Ceriodaphnia dubia</i>	48 hours
	Acute LC50 11200 mg/l Fresh water	Fish - <i>oncorhynchus mykiss</i>	24 hours
	Chronic EC10 11.5 mg/l Fresh water	Algae - <i>Chlorella vulgaris</i>	72 hours

	Chronic NOEC 79 mg/l Marine water Chronic NOEC 9.6 mg/l Chronic NOEC 250 mg/l Fresh water	Crustaceans - <i>Palaemonetes pugio</i> Daphnia - <i>daphnia magna</i> Fish - <i>Danio rerio</i> - Embryo	12 days 10 days 120 hours
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**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
butanone	-	-	Readily
ethanol	-	-	Readily

**Conclusion/Summary** : Not available.

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
butanone	0.3	-	Low
ethanol	-0.35	-	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**

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
<b>14.1 UN number</b>	UN1210	UN1210	UN1210	UN1210
<b>14.2 UN proper shipping name</b>	Printing Ink Related Material	Printing Ink Related Material	Printing Ink Related Material	Printing Ink Related Material
<b>14.3 Transport hazard class(es)</b>	3 	3 	3 	3 



14.4 Packing group	II	II	II	II
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.

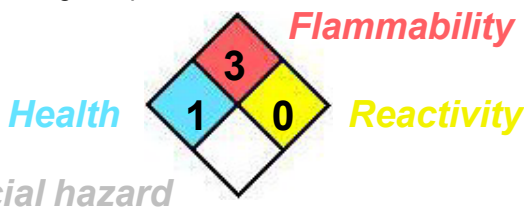
**SECTION 15: Regulatory information**

**CERCLA: Hazardous substances.** : The following components are listed: butanone (70 - <80%)

**SARA 313** : The following components are listed: None.

**California Prop. 65** : The following components are listed: None.

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



**Tariff Code - harmonized system** : 3814.00 Organic composite solvents and thinners, not elsewhere specified or included.  
 USA ...50.90  
 EU ...90.99

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

**California, VOC Content** : 799 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
FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	On basis of test data Calculation method Calculation method

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Details of the supplier of the safety data sheet**

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