# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 071431816

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071431808



V

-

# Velvet Etch

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 23 October 2018 Revision date: 10 May 2021 Version: 2.0

SECTION 1: Identification	
1.1. Identification	
Productform	: Mixture
Tradename	: Velvet Etch
1.2. Recommended use and restrictions	on use
Use of the substance/mixture	: Designed to etch and prepare dentin and enamel
1.3. Supplier	
Inter-Med, Inc. / Vista Dental Products	
2200 South Street	
Racine, WI 53404 T: (877)-418-4782	
1.4. Emergency telephone number Emergency number	: 800-424-9300 (North America) / +1 (703) 527-3887 (International)
Emergencynumber	. 000-424-9300 (NOTITATIETICa) / +1 (703) 527-3667 (International)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	ixture
GHS-US classification	
Corrosive to metals Category 1	May be corrosive to metals
Skin corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1	Causes severe skin burns and eye damage Causes serious eye damage
GHS-US labeling Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: May be corrosive to metals Causes severe skin burns and eye damage Causes serious eye damage
Precautionary statements (GHS-US)	<ul> <li>Keep only in original container. Do not breathe mist, spray, vapors. Wash hands thoroughly after handling. Wear eye protection, protective clothing, protective gloves. If swallowed: rinse mouth. Do NOT induce vomiting If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>If in haled: Remove person to fresh air and keep comfortable for breathing</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>Immediately call a doctor, a POISON CENTER</li> <li>Wash contaminated clothing before reuse.</li> <li>Absorb spillage to prevent material-damage.</li> <li>Store locked up.</li> <li>Store in corrosive resistant container with a resistant inner liner.</li> <li>Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, n ational and/or intermational regulation</li> </ul>

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **SECTION 3: Composition/Information on ingredients**

# 3.1. Substances

### Notapplicable

Name	Product identifier	%	GHS-US classification
phosphoric acid	(CAS-No.) 7664-38-2	38 - 42	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16  $\,$ 

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures after in halation	: Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if necessary. If you feel un well, seek medical advice.
First-aid measures after skin contact	: Wash off immediately and plentifully with water for at least 20 minutes. Take off immediately all contaminated clothing and wash it before reuse. Get immediate medical advice/attention.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 20-30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical advice.
First-aid measures after in gestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effec	ts (acute and delayed)
Symptoms/effects after inhalation	: In halation of airbome droplets or aerosols may cause irritation of the respiratory tract.
Symptoms/effects after skin contact	: Causes severe burns.
Symptoms/effects after eye contact	: Causes serious eye burns.
Symptoms/effects after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	ning media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Noneknown.
5.2. Specific hazards arising from the ch	emical
Fire hazard	: On combustion, forms: carbon oxides (CO and CO2). Phosphorus oxides.
Explosionhazard	: No direct explosion hazard.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipment and pr	recautions for fire-fighters
Firefightinginstructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equ	uipment and emergency procedures
General measures	: Avoid contact with skin, eyes and clothing. Avoid all eye and skin contact and do not breathe vapor and mist.
6.1.1. For non-emergency personnel	
6.1.1. For non-emergency personnel Protective equipment	: Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
· · · · · · · · · · · · · · · · · · ·	
Protectiveequipment	"Exposure controls/personal protection".
Protective equipment Emergency procedures	"Exposure controls/personal protection".
Protective equipment Emergency procedures 6.1.2. For emergency responders	<ul> <li>"Exposure controls/personal protection".</li> <li>: Ventilate spillage area.</li> <li>: Do not attempt to take action without suitable protective equipment. In case of inadequate</li> </ul>

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.2.	Environmental precautions	
Avoid	release to the environment.	
6.3.	Methods and material for contain	nent and cleaning up
Meth	odsforcleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.
Othe	rinformation	: Dispose of materials or solid residues at an authorized site.
6.4.	Reference to other sections	

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide local exhaust or general room ventilation to minimize vapor concentrations. Avoid contact with skin and eyes. Do not breathe mist, spray, vapors. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good in dustrial hygiene and safety practice. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storageconditions	: Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool.

: Metals. Oxidizing agent.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

In compatible materials

phosphoric acid (7664-38-2)			
ACGIH	Local name	Phosphoricacid	
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>	
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>	
ACGIH	Remark (ACGIH)	URT, eye, & skin irr	
ACGIH	Regulatory reference	ACGIH 2018	
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>	
OSHA	Regulatory reference (US-OSHA)	OSHA	
IDLH	US IDLH (mg/m³)	1000 mg/m³	
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>	
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>	

8.2.	Appropriate engineering controls		
Appro	opriate en gineering controls	ide local exhaust or general room ventilation to minimize v vash fountains and safety showers should be available in ntial exposure.	
Envir	onmental exposure controls	d release to the environment.	
8.3.	Individual protection measures/Per	ective equipment	

#### Hand protection:

Impermeable protective gloves

#### Eye protection:

Safety glasses with side shields

#### Skin and body protection:

Long sleeved protective clothing

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits

SECTION 9: Physical and chemical p	properties
9.1. Information on basic physical and c	hemical properties
Physical state	: Gel
Appearance	: gel.
Color	: Purple
Odor	: Odorless
Odor threshold	: No data available
рН	: 1 - 1.5
Meltingpoint	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vaporpressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.25 - 1.3 g/cm³ (25 °C / 77 °F)
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosiveproperties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

SECTI	ON 10: Stability and reactivity	
10.1.	Reactivity	
Thepro	duct is non-reactive under normal condition	ns of use, storage and transport.
10.2.	Chemical stability	
Stable u	nder normal conditions.	
10.3.	Possibility of hazardous reactions	
Hazardo	ous polymerization will not occur.	
10.4.	Conditions to avoid	
Donote	expose to heat.	
10.5.	Incompatible materials	
metals.	Oxidising agents.	
10.6.	Hazardous decomposition products	
No haza	rdous decomposition products known at re	oom temperature. On combustion, forms: carbon oxides (CO and CO2). Phosphorus oxides.
SECTI	ON 11: Toxicological informatio	n
11.1.	Information on toxicological effects	
Acute	oxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute	oxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
phosphoric acid (7664-38-2)	
LD50 oral rat	1530 mg/kg
LD50 dermal rabbit	2740 mg/kg
LC50 in halation rat (mg/l)	> 850 mg/m <sup>3</sup> (Exposure time: 1 h)
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 1 - 1.5
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 1 - 1.5
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity - single exposure	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ to xicity – repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspirationhazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available
Likely routes of exposure	: In halation. Ingestion. Skin and eye contact.
Symptoms/effects after inhalation	: In halation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Symptoms/effects after skin contact	: Causes severe burns.
Symptoms/effects after eye contact	: Causes serious eye burns.
Symptoms/effects after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
SECTION 12: Ecological information	
2.1. Toxicity	
Ecology-general	: This material has not been tested for environmental effects.
2.2. Persistence and degradability	
No additional information available	
2.3. Bioaccumulative potential	
No additional information available	
2.4. Mobility in soil	
No additional information available	
2.5. Other adverse effects	

No additional information available

SECTION 13: Disposal considerations					
13.1.	Disposal methods				
Waste treatment methods		: Dispose of contents/container in accordance with licensed collector's sorting in structions.			

#### **SECTION 14: Transport information**

**Department of Transportation (DOT)** 

In accordance with DOT		
Transport document description	: UN1805 Phosphoric acid solution, 8, III	
UN-No.(DOT)	: UN1805	
Proper Shipping Name (DOT)	: Phosphoric acid solution	
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136	
Packinggroup(DOT)	: III - Minor Danger	

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	: 8 - Corrosive
	CORROSIVE 8
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Special Provisions (49 CFR 172.102)	<ul> <li>A7 - Steel packaging must be corrosion-resistant or have protection against corrosion. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>N34 - Alumin um construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
EmergencyResponseGuide(ERG)Number	: 154
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Tran sport document description	: UN1805 PHOSPHORIC ACID, SOLUTION, 8, III
UN-No. (TDG)	: UN1805
Proper Shipping Name (Transportation of Dangerous Goods)	: PHOSPHORIC ACID, SOLUTION
TDG Primary Hazard Classes	: 8 - Class 8 - Corrosives
Packinggroup	: III - Minor Danger
Explosive Limit and Limited Quantity Index	: 5L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5L
Transport by sea	
Transport document description (IMDG)	: UN 1805 PHOSPHORIC ACID SOLUTION, 8, III
UN-No. (IMDG)	: 1805
Proper Shipping Name (IMDG)	: PHOSPHORIC ACID SOLUTION
Class (IMDG)	: 8 - Corrosive substances
Packinggroup(IMDG)	: III - substances presenting low danger
Air transport	
Transport document description (IATA)	: UN 1805 Phosphoric acid, solution, 8, III
UN-No. (IATA)	: 1805
Proper Shipping Name (IATA)	: Phosphoricacid, solution
Class (IATA)	: 8 - Corrosives

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

CTION 15: Regulatory in 1. US Federal regulations	nformation	
phosphoric acid (7664-38-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLARQ	5000 lb	
CERCLA RQ 2. International regulations NADA	5000 16	
2. International regulations	5000 16	

#### phosphoric acid (7664-38-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

phosphoric acid (7664-38-2)	
Listed on the AICS (Australian Inventory of Chemical Substances)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Listed on the Korean ECL (Existing Chemicals List)	
Listed on NZIoC (New Zealand Inventory of Chemicals)	
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)	
Listed on INSQ (Mexican National Inventory of Chemical Substances)	
Listed on CICR (Turkish Inventory and Control of Chemicals)	

#### 15.3. US State regulations

No additional information available

#### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 10 May 2021

#### Full text of H-phrases:

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

#### SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product