# **SAFETY DATA SHEET**



VL Primary Secondary Amine (PSA), 100g, Part Number 5610-2140

### Section 1. Identification

1.1 Product identifier	
Product name	: VL Primary Secondary Amine (PSA), 100g, Part Number 5610-2140
Part no.	: 5610-2140
Validation date	: 5/24/2022
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Material uses	: Reagents and Standards for Analytical Chemistry Laboratory Use Bottle 100 g
1.3 Details of the supplier of	the safety data sheet
Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
<b><u>1.4 Emergency telephone nu</u></b>	umber

THE Entry Colophone	Transer
<u>In case of emergency</u>	: CHEMTREC®: 1-800-424-9300

# Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** 

COMBUSTIBLE DUSTS

2.2 GHS label elements	
Signal word	: Warning
Hazard statements	: May form combustible dust concentrations in air.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	Not applicable.
Supplemental label elements	: Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.
2.3 Other hazards	
Hazards not otherwise	: None known.

classified

# Section 3. Composition/information on ingredients

Substance/mixture

: Substance

Ingredient name	%	CAS number
PSA	100	-

Note: The hazard information listed is based on unbonded silica gel CAS Number 112926-00-8. To the best of our knowledge, the acute and chronic toxicological properties of bonded silica gels have not been investigated. This product contains synthetic amorphous silica, and should not be confused with crystalline silica such as quartz, cristobalite, or tridymite, or with diatomaceous earth or other naturally occurring forms of amorphous silica that frequently contain crystalline forms of silica.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

# Section 4. First aid measures

#### 4.1 Description of necessary 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 if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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 adverse health effects persist or are severe. 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/effects, acute and delayed

Potential acute health	n effects
Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: irritation redness

# Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.
4.3 Indication of immediate	medical attention and special treatment needed, if necessary
4.3 Indication of immediate Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed.

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures 5.1 Extinguishing media

Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
5.2 Special hazards arising	from the substance or mixture
Specific hazards arising from the chemical	: May form explosible dust-air mixture if dispersed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
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, pro	tective 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 dust. 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".

# Section 6. Accidental release measures

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

Methods for cleaning up	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment.
	Vacuum or sweep up material and place in a designated, labeled waste container.
	Dispose of via a licensed waste disposal contractor.

# 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 dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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. 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.
7.3 Specific end use(s)	
Recommendations	: Industrial applications, Professional applications.
Industrial sector specific solutions	: Not available.

# Section 8. Exposure controls/personal protection

8.1 Control parameters Occupational exposure limits

# Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
PSA	ACGIH TLV (United States). Particulates Not Otherwise Specified (PNOS): 10 mg/m <sup>3</sup> Form: Inhalable Particulates Not Otherwise Specified (PNOS): 3 mg/m <sup>3</sup> Form: Respirable OSHA PEL (United States). Particulates Not Otherwise Specified (PNOS): 5 mg/m <sup>3</sup> Form: Respirable fraction Particulates Not Otherwise Specified (PNOS): 15 mg/m <sup>3</sup> Form: Total dust

8.2 Exposure controls			
Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, 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.		
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.		
Individual protection measure	es en la companya de		
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. If operating conditions cause high dust concentrations to be produced, use dust goggles.		
Skin protection			
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.		
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
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.		

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance		
Physical state	Solid. [Powder.]	
Color	White./ Off-white.	
Odor	Faint odor.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Boiling point, initial boiling point, and boiling range	Not available.	
Flash point	Not applicable.	
Evaporation rate	Not available.	
Flammability	Not available.	
Lower and upper explosion limit/flammability limit	Not applicable.	
Vapor pressure	Not available.	
Relative vapor density	Not applicable.	
Relative density	2.5 to 3.5	
Density	2.5 to 3.5 g/cm³ [25°C (77°F)]	
Solubility	Insoluble in the following materials: cold water and hot water.	
Partition coefficient: n- octanol/water	Not available.	
Auto-ignition temperature	Not applicable.	
Decomposition temperature	Not available.	
Viscosity	Not applicable.	
Particle characteristics		
Median particle size	Not available.	

# Section 10. Stability and reactivity

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10.6 Hazardous decomposition proc		Under normal conditions of storage and use, hazardous decomposition products should not be produced.
10.5 Incompatible m	naterials :	Reactive or incompatible with the following materials: oxidizing materials Incompatible with hydrogen fluoride.
10.4 Conditions to a	avoid :	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
10.3 Possibility of hazardous reactions		Under normal conditions of storage and use, hazardous reactions will not occur.
10.2 Chemical stabi	lity :	The product is stable.
10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.

# Section 11. Toxicological information

11.1 Information on toxico	logical effects
Acute toxicity	
Not available.	
Irritation/Corrosion	
Not available.	
Sensitization	
Not available.	
<b>Mutagenicity</b>	
Conclusion/Summary	: Not available.
<b>Carcinogenicity</b>	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	: Not available.
Conclusion/Summary	
Specific target organ toxi Not available.	
Specific target organ toxi	<u>icity (repeated exposure)</u>
Not available.	
Aspiration hazard	
Not available.	
Information on the likely	: Not available.
routes of exposure	
Potential acute health effe	<u>cts</u>
Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits
Inholotion	may cause irritation of the eyes.
Inhalation	<ul> <li>Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.</li> </ul>
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
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Symptoms related to the p	hysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:
	irritation redness
Inhalation	: Adverse symptoms may include the following:
initialation	respiratory tract irritation
	coughing
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate of	fects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate	: Not available.
effects	
	N0000

# Section 11. Toxicological information

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Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
General	: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

#### 12.1 Toxicity

Not available.

#### 12.2 Persistence and degradability

Conclusion/Summary : Based on chemical experience, will degrade over very long period of time.

#### **12.3 Bioaccumulative potential**

Not available.

#### 12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

12.5 Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### 13.1 Waste treatment methods **Disposal methods** 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. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

VL Primary Secondary Amine (PSA), 100g, Part Number 5610-2140

# Section 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated. IATA

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

# Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations	: 18	SCA 8(a) CDR	<b>Exempt/Partial exemption</b> : Not determined	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: No	ot listed		
Clean Air Act Section 602 Class I Substances	: No	ot listed		
Clean Air Act Section 602 Class II Substances	: No	: Not listed		
DEA List I Chemicals (Precursor Chemicals)	: No	ot listed		
DEA List II Chemicals (Essential Chemicals)	: Not listed			
<u>SARA 302/304</u>				
Composition/information	<u>on ing</u>	redients		
No products were found.				
SARA 304 RQ	: No	ot applicable.		
<u>SARA 311/312</u>				
Classification	: C0	OMBUSTIBLE	DUSTS	
Composition/information	<u>on ing</u>	<u>redients</u>		
Name		%	Classification	
PSA		100	COMBUSTIBLE DUSTS	
		I		
State regulations				
Massachusetts	: Th	is material is i	not listed.	

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# Section 15. Regulatory information

New York	: This material is not listed.
New York	: This material is not listed.

**New Jersey** : This material is not listed.

- Pennsylvania
- : This material is not listed.

#### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

# Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: This material is listed or exempted.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): This material is listed or exempted.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: This material is listed or exempted.
Taiwan	: This material is listed or exempted.
Thailand	: Not determined.
Turkey	: This material is listed or exempted.
United States	: This material is active or exempted.
Viet Nam	: Not determined.

# Section 16. Other information

#### Procedure used to derive the classification

	Classification	Justification	
COMBUSTIBLE DUST	S	On basis of test data	
History		<u> </u>	
Date of issue	: 05/24/2022		

Date of Issue	05/24/2022
Date of previous issue	: No previous validation
Version	: 1

# Section 16. Other information

Key to abbreviations	: 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)
	N/A = Not available
	UN = United Nations

✓ Indicates information that has changed from previously issued version.

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