

## 1 Identification

- **Product identifier**
- **Trade name:** 40913 1K HS Semi-gloss Clear Aerosol
- **Article number:** 40913
- **Application of the substance / the mixture** Coating
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SEM Products Inc.  
1685 Overview Drive  
Rock Hill, SC 29730  
803 207 8225
- **Information department:**  
cust\_care@semproducts.com : SEM Products, Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT
- **Emergency telephone number:** CHEMTREC 1-800-424-9300

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222

Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas

H280

Contains gas under pressure; may explode if heated.



GHS07

Skin Irrit. 2

H315

Causes skin irritation.

Eye Irrit. 2A

H319

Causes serious eye irritation.

Skin Sens. 1

H317

May cause an allergic skin reaction.

STOT SE 3

H335-H336

May cause respiratory irritation. May cause drowsiness or dizziness.

- **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02

GHS04

GHS07

- **Signal word** Danger

- **Hazard-determining components of labeling:**

ACRYLIC RESIN

butanone

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acetone

2,6-dimethylheptan-4-one

· **Hazard statements**

- H222 Extremely flammable aerosol.
- H280 Contains gas under pressure; may explode if heated.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· **Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P251 Do not pierce or burn, even after use.
- P211 Do not spray on an open flame or other ignition source.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves.
- P280 Wear eye protection / face protection.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P363 Wash contaminated clothing before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P410+P403 Protect from sunlight. Store in a well-ventilated place.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization:** Mixtures

· **Description:**

Mixture: consisting of the following components.

Weight percentages

· **Dangerous components:**

115-10-6	dimethyl ether	30 - 40%
110-19-0	isobutyl acetate	13 - 30%
	ACRYLIC RESIN	10 - 13%
78-93-3	butanone	10 - 13%
67-64-1	acetone	7 - 10%
763-69-9	ethyl 3-ethoxypropionate	1.5 - 5%
108-83-8	2,6-dimethylheptan-4-one	1.5 - 5%
19549-80-5	4,6-dimethylheptan-2-one	1-1.5%
25973-55-1	2-(2-HYDROXY-3-5-DI--(TERT)-AMYLPHENYL)BENZOTRIAZOLE	≤1%
41556-26-7	bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate	≤1%

### 4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** No special measures required.



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**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling**  
No special measures required.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**  
Do not spray on a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

<b>115-10-6 dimethyl ether</b>	
WEEL	Long-term value: 1000 ppm
<b>110-19-0 isobutyl acetate</b>	
PEL	Long-term value: 700 mg/m <sup>3</sup> , 150 ppm
REL	Long-term value: 700 mg/m <sup>3</sup> , 150 ppm
TLV	Short-term value: 172 mg/m <sup>3</sup> , 150 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm

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**78-93-3 butanone**

PEL	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm BEI

**67-64-1 acetone**

PEL	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm
TLV	Short-term value: 1187 mg/m <sup>3</sup> , 500 ppm Long-term value: 594 mg/m <sup>3</sup> , 250 ppm BEI

**108-83-8 2,6-dimethylheptan-4-one**

PEL	Long-term value: 290 mg/m <sup>3</sup> , 50 ppm
REL	Long-term value: 150 mg/m <sup>3</sup> , 25 ppm
TLV	Long-term value: 145 mg/m <sup>3</sup> , 25 ppm

**Ingredients with biological limit values:**

**78-93-3 butanone**

BEI	2 mg/L Medium: urine Time: end of shift Parameter: MEK
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**67-64-1 acetone**

BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Safety glasses



Tightly sealed goggles

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Aerosol  
Color: According to product specification  
Odor: Characteristic  
Odor threshold: Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.  
Boiling point/Boiling range: -24 °C

· **Flash point:** -42 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 235 °C

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.

· **Explosion limits:**

Lower: 1.8 Vol %  
Upper: 18.6 Vol %

· **Vapor pressure at 20 °C:** 5200 hPa

· **Density at 20 °C:** 0.79153 g/cm<sup>3</sup>  
· **Relative density** Not determined.  
· **Vapor density** Not determined.  
· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 87.2 %
  - VOC content:** 77.9 %
  - 679.8 g/l / 5.67 lb/gl
- **Solids content:** 12.8 %
- **Other information** No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene	3
100-41-4	ethylbenzene	2B

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

68911-87-5 | montmorilontie clay complex

USA

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**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1950
- **UN proper shipping name**
- **DOT** Aerosols, flammable
- **ADR** 1950 Aerosols
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

· **Transport hazard class(es)**

· **DOT**



- **Class** 2.1
- **Label** 2.1

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· ADR



· Class 2 5F Gases  
· Label 2.1

· IMDG, IATA



· Class 2.1  
· Label 2.1

· Packing group  
· DOT, ADR, IMDG, IATA Void

· Environmental hazards:  
· Marine pollutant: No

· Special precautions for user Warning: Gases  
· EMS Number: F-D,S-U  
· Stowage Code SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre:  
Category A. For AEROSOLS with a capacity above 1 litre:  
Category B. For WASTE AEROSOLS: Category C, Clear of living  
quarters.  
· Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre:  
Segregation as for class 9. Stow "separated from" class 1 except for  
division 1.4. For AEROSOLS with a capacity above 1 litre:  
Segregation as for the appropriate subdivision of class 2. For  
WASTE AEROSOLS: Segregation as for the appropriate subdivision  
of class 2.

· Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:  
· DOT  
· Quantity limitations On passenger aircraft/rail: 75 kg  
On cargo aircraft only: 150 kg

· ADR  
· Excepted quantities (EQ) Code: E0  
Not permitted as Excepted Quantity

· IMDG  
· Limited quantities (LQ) 1L  
· Excepted quantities (EQ) Code: E0  
Not permitted as Excepted Quantity

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· UN "Model Regulation": UN 1950 AEROSOLS, 2.1

**15 Regulatory information**

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

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

78-93-3	butanone
1330-20-7	xylene
122-99-6	2-Phenoxyethanol
100-41-4	ethylbenzene
95-63-6	1,2,4-trimethylbenzene
104-68-7	Diethylene glycol monophenyl ether

· TSCA (Toxic Substances Control Act):

115-10-6	dimethyl ether
110-19-0	isobutyl acetate
78-93-3	butanone
67-64-1	acetone
763-69-9	ethyl 3-ethoxypropionate
108-83-8	2,6-dimethylheptan-4-one
16883-83-3	benzyl 3-isobutryloxy-1-isopropyl-2-2-dimethylpropyl phthalate
19549-80-5	4,6-dimethylheptan-2-one
68911-87-5	montmorilontie clay complex
25973-55-1	2-(2-HYDROXY-3-5-DI--(TERT)-AMYLPHENYL)BENZOTRIAZOLE
41556-26-7	bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate
1330-20-7	xylene
122-99-6	2-Phenoxyethanol
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy
82919-37-7	Methyl (1,2,2,6,6,- pentamethyl-4-piperidinyl) sebacate

· Proposition 65

· Chemicals known to cause cancer:

1330-20-7	xylene
100-41-4	ethylbenzene
95-63-6	1,2,4-trimethylbenzene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

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· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

78-93-3	butanone	I
67-64-1	acetone	I
1330-20-7	xylene	I
100-41-4	ethylbenzene	D

· **TLV (Threshold Limit Value established by ACGIH)**

67-64-1	acetone	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02    GHS04    GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**

ACRYLIC RESIN

butanone

acetone

2,6-dimethylheptan-4-one

· **Hazard statements**

H222    Extremely flammable aerosol.

H280    Contains gas under pressure; may explode if heated.

H315    Causes skin irritation.

H319    Causes serious eye irritation.

H317    May cause an allergic skin reaction.

H335-H336    May cause respiratory irritation. May cause drowsiness or dizziness.

· **Precautionary statements**

P210    Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P251    Do not pierce or burn, even after use.

P211    Do not spray on an open flame or other ignition source.

P261    Avoid breathing dust/fume/gas/mist/vapors/spray

P280    Wear protective gloves.

P280    Wear eye protection / face protection.

P264    Wash thoroughly after handling.

P271    Use only outdoors or in a well-ventilated area.

P272    Contaminated work clothing must not be allowed out of the workplace.

P305+P351+P338    If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321    Specific treatment (see on this label).

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P304+P340 *IF INHALED: Remove person to fresh air and keep comfortable for breathing.*  
 P312 *Call a POISON CENTER/doctor if you feel unwell.*  
 P363 *Wash contaminated clothing before reuse.*  
 P333+P313 *If skin irritation or rash occurs: Get medical advice/attention.*  
 P337+P313 *If eye irritation persists: Get medical advice/attention.*  
 P302+P352 *IF ON SKIN: Wash with plenty of water.*  
 P362+P364 *Take off contaminated clothing and wash it before reuse.*  
 P405 *Store locked up.*  
 P410+P403 *Protect from sunlight. Store in a well-ventilated place.*  
 P410+P412 *Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.*  
 P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*  
 P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing SDS:** Environment protection department.

· **Contact:** Steve Gaver (sgaver@semproducts.com)

· **Date of preparation / last revision** 06/01/2016 / 12

· **Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organisation*

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*VOC: Volatile Organic Compounds (USA, EU)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*BEI: Biological Exposure Limit*

*Flam. Aerosol 1: Aerosols – Category 1*

*Press. Gas: Gases under pressure – Compressed gas*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A*

*Skin Sens. 1: Skin sensitisation – Category 1*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

· **\* Data compared to the previous version altered.**