

**1 Identification of the substance/mixture and of the company/undertaking**· **Product details**· **Trade name:** A1600 Series Aerospace Sure Coat· **Article number:**

A16015, A16018, A16085, A16088, A16505, A16508, A16515, A16518, A16525, A16528, A16535, A16538, A16545, A16548, A16565, A16568, A16585, A16588, A16595, A16598, A16705, A16708, A16715, A16718, A16725, A16728, A16815, A16870, A16875, A16855

· **Application of the substance / the preparation** coating· **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 information:** 24 HR EMERGENCY CHEMTREC 1-800-424-9300**2 Composition/information on ingredients**· **Chemical characterization**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

872-50-4	<i>N</i> -methyl-2-pyrrolidone H360; H315; H319; H335	5 - 7%
107-98-2	1-methoxy-2-propanol H226; H336	5 - 7%
18268-70-7	Tetraethylene Glycol Di 2-ethylhexoate H301; H315; H319; H335	1.5 - 5%

3 Hazards identification· **Classification of the substance or mixture**· **Classification according to Regulation (EC) No 1272/2008**

GHS08 Health hazard

H360 May damage fertility or the unborn child.

H227 Combustible liquid.

H333 May be harmful if inhaled.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Toxic

May cause harm to the unborn child.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.

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USA

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· Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· Label elements**· Labelling according to Regulation (EC) No 1272/2008****· Hazard pictograms**

GHS08

· Signal word *Danger***· Hazard-determining components of labelling:***N-methyl-2-pyrrolidone***· Hazard statements***Combustible liquid.**May be harmful if inhaled.**May damage fertility or the unborn child.***· Precautionary statements***Keep away from heat/sparks/open flames/hot surfaces. - No smoking.**Wear protective gloves/protective clothing/eye protection/face protection.**Use personal protective equipment as required.**IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.***· Labelling according to EU guidelines:***Observe the general safety regulations when handling chemicals.**The product has been classified and marked in accordance with directives on hazardous materials.***· Code letter and hazard designation of product:***Toxic***· Hazard-determining components of labelling:***N-methyl-2-pyrrolidone***· Risk phrases:***May cause harm to the unborn child.***· Safety phrases:***Avoid exposure - obtain special instructions before use.**Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).**In case of insufficient ventilation, wear suitable respiratory equipment.**In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).**This material and its container must be disposed of as hazardous waste.*

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5 Firefighting measures

- **Suitable extinguishing agents:** FOAM, CO2, DRY CHEMICAL
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
 - Dilute with plenty of water.
 - Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
 - No special measures required.
 - Ensure good ventilation/exhaustion at the workplace.
 - Open and handle receptacle with care.
 - Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Storage:**
 - Requirements to be met by storerooms and receptacles:** No special requirements.
 - Information about storage in one common storage facility:** Not required.

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· Further information about storage conditions: None.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Components with limit values that require monitoring at the workplace:

872-50-4 N-methyl-2-pyrrolidone

WEEL ()	10 ppm Skin
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107-98-2 1-methoxy-2-propanol

REL ()	Short-term value: 540 mg/m ³ , 150 ppm Long-term value: 360 mg/m ³ , 100 ppm
TLV ()	Short-term value: 553 mg/m ³ , 150 ppm Long-term value: 369 mg/m ³ , 100 ppm

· Additional information: The lists that were valid during the creation were used as basis.

· 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.

Store protective clothing separately.

· 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:

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

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

· 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: Goggles recommended during refilling.

9 Physical and chemical properties

· General Information

· Appearance:

Form: Liquid

Color: According to product specification

· Odor: Characteristic

· Change in condition

Melting point/Melting range: Undetermined.

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Boiling point/Boiling range:	120°C (248°F)
· Flash point:	62°C (144°F)
· Ignition temperature:	270°C (518°F)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard. In use, may form flammable/explosive vapour-air mixture.
· Vapor pressure at 20°C (68°F):	23 hPa (17 mm Hg)
· Density at 20°C (68°F):	1.06 g/cm ³ (8.846 lbs/gal)
· Solubility in / Miscibility with Water:	Fully miscible.
· Solvent content:	
Organic solvents:	12.8 %
Water:	39.1 %
VOC content:	12.8 %
	148.0 g/l / 1.24 lb/gl
· Solids content:	31.7 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

872-50-4 N-methyl-2-pyrrolidone

Oral	LD50	3914 mg/kg (rat)
Dermal	LD50	8000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** moderate skin irritant
- **on the eye:** moderate eye irritant
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:

12 Ecological information

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Remarks:** ORM-D 49CFR 173.150,156,or306
- **Land transport TDG (Canada) and ADR/RID (Europe):**
- **Hazard class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **UN "Model Regulation":** -

15 Regulatory information

- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

872-50-4 N-methyl-2-pyrrolidone

107-21-1 ethanediol

· **TSCA (Toxic Substances Control Act):**

7732-18-5 water, distilled, conductivity or of similar purity

872-50-4 N-methyl-2-pyrrolidone

107-98-2 1-methoxy-2-propanol

18268-70-7 Tetraethylene Glycol Di 2-ethylhexoate

9036-19-5 Polyethylene glycol octylphenyl ether

57-55-6 propane-1,2-diol

107-21-1 ethanediol

126-86-3 2,4,7,9-tetramethyldec-5-yne-4,7-diol

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143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	
124-68-5	2-amino-2-methylpropanol	
· Proposition 65		
· Chemicals known to cause cancer:		
107-21-1	ethanediol	
· 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.		
· Chemicals known to cause developmental toxicity:		
872-50-4	N-methyl-2-pyrrolidone	
· Cancerogenity categories		
· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· IARC (International Agency for Research on Cancer)		
None of the ingredients is listed.		
· NTP (National Toxicology Program)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value established by ACGIH)		
107-21-1	ethanediol	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		
· 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 MSDS:** Environment protection department.

· **Contact:** Steve Gaver

· **Abbreviations and acronyms:**

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

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent