



1 Identification

- **Product identifier**
- **Trade name:** 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat
- **Article number:** 50421, 50424
- **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 identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids - Category 2

H225 Highly flammable liquid and vapour.



GHS08 Health hazard

Germ Cell Mutagenicity - Category 1B

H340 May cause genetic defects.

Carcinogenicity - Category 1B

H350 May cause cancer.



GHS07

Eye Irritation - Category 2A

H319 Causes serious eye irritation.

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure - Category 3

H336 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



GHS07



GHS08

- **Signal word** Danger

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

(Contd. on page 2)

Safety Data Sheet

according to HPR, Schedule 1



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 1)

Solvent naphtha (petroleum), light arom.
 n-butyl acetate
 bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate

Hazard statements

H225 Highly flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H340 May cause genetic defects.
 H350 May cause cancer.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
 P242 Use non-sparking tools.
 P243 Take actions to prevent static discharges.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P321 Specific treatment (see on this label).
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 1

Fire = 3

Reactivity = 0

(Contd. on page 3)

CA

Safety Data Sheet

according to HPR, Schedule 1



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 2)

· HMIS-ratings (scale 0 - 4)

HEALTH	*1	Health = *1
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

3 Composition/Information on ingredients

· Chemical characterization: Mixtures

· Description:

Mixture: consisting of the following components.

Weight percentages

· Dangerous components:

67-64-1	acetone	10-30% w/w
123-86-4	n-butyl acetate	10-30% w/w
110-43-0	heptan-2-one	5-10% w/w
1330-20-7	xylene	3-7% w/w
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	1-5% w/w
108-83-8	2,6-dimethylheptan-4-one	0.5-1.5% w/w
64742-95-6	Solvent naphtha (petroleum), light arom.	≤ 1% w/w
25973-55-1	2-(2-HYDROXY-3-5-DI--(TERT)-AMYLPHENYL)BENZOTRIAZOLE	≤ 1% w/w
41556-26-7	bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate	≤ 1% w/w
100-41-4	ethylbenzene	≤ 1% w/w

4 First aid measures

· Description of first aid measures

· 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 Firefighting measures

· Extinguishing media

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

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

(Contd. on page 4)



Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 3)

- **Advice for firefighters**
- **Protective equipment:** No special measures required.

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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **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:**

67-64-1 acetone

EL	Short-term value: 500 ppm Long-term value: 250 ppm
EV	Short-term value: 750 ppm Long-term value: 500 ppm

(Contd. on page 5)



Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 4)

123-86-4 n-butyl acetate

EL Long-term value: 20 ppm

EV Short-term value: 950 mg/m³, 200 ppm
Long-term value: 710 mg/m³, 150 ppm**110-43-0 heptan-2-one**

EL Long-term value: 50 ppm

EV Long-term value: 115 mg/m³, 25 ppm**1330-20-7 xylene**EL Short-term value: 150 ppm
Long-term value: 100 ppmEV Short-term value: 650 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm**108-83-8 2,6-dimethylheptan-4-one**

EL Long-term value: 25 ppm

EV Long-term value: 145 mg/m³, 25 ppm**100-41-4 ethylbenzene**EL Long-term value: 20 ppm
IARC 2BEV Short-term value: 540 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppm

· **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.

Store protective clothing separately.

Avoid contact with the eyes.

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

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.

(Contd. on page 6)



Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 5)

· **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:**



Tightly sealed goggles

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:

Liquid

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:

55 °C

· **Flash point:**

-18 °C

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

370 °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:

1.2 Vol %

Upper:

13.0 Vol %

· **Vapor pressure at 20 °C:**

233 hPa

· **Density at 20 °C:**

0.92225 g/cm³

· **Relative density**

Not determined.

· **Vapor density**

Not determined.

· **Evaporation rate**

Not determined.

· **Solubility in / Miscibility with**

Water:

Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic:

Not determined.

Kinematic:

Not determined.

(Contd. on page 7)



Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 6)

· Solvent content:	
Organic solvents:	66.1 %
VOC content:	35.5 %
	498.1 g/l / 4.16 lb/gal
Solids content:	33.3 %
· 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:**

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

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **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
The product can cause inheritable damage.

- **Carcinogenic categories**

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

1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
98-82-8	cumene	2B

· **NTP (National Toxicology Program)**

98-82-8	cumene	R
---------	--------	---

(Contd. on page 8)



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 7)


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 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **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, TDG, IMDG, IATA | UN1263 |
| · UN proper shipping name | |
| · DOT | Paint |
| · TDG | 1263 Paint, special provision 640D |
| · IMDG, IATA | PAINT |
| · Transport hazard class(es) | |
| · DOT | |
|  | |
| · Class | 3 Flammable liquids |
| · Label | 3 |

(Contd. on page 9)

CA

Safety Data Sheet

according to HPR, Schedule 1



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 8)

· TDG, IMDG, IATA



· Class 3 Flammable liquids
 · Label 3

· Packing group
 · DOT, TDG, IMDG, IATA II

· Environmental hazards:
 · Marine pollutant: No

· Special precautions for user Warning: Flammable liquids
 · EMS Number: F-E, S-E
 · Stowage Category B

· 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: 5 L
 On cargo aircraft only: 60 L

· TDG
 · Excepted quantities (EQ) Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· IMDG
 · Limited quantities (LQ) 5L
 · Excepted quantities (EQ) Code: E2
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II

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):

	Acrylic Resin
1330-20-7	xylene
95-63-6	1,2,4-trimethylbenzene
122-99-6	2-Phenoxyethanol
100-41-4	ethylbenzene

(Contd. on page 10)

CA



Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 9)

104-68-7	Diethylene glycol monophenyl ether
98-82-8	cumene
· TSCA (Toxic Substances Control Act):	
67-64-1	acetone
123-86-4	n-butyl acetate
110-43-0	heptan-2-one
1330-20-7	xylene
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene
108-83-8	2,6-dimethylheptan-4-one
64742-95-6	Solvent naphtha (petroleum), light arom.
25973-55-1	2-(2-HYDROXY-3-5-DI--(TERT)-AMYLPHENYL)BENZOTRIAZOLE
19549-80-5	4,6-dimethylheptan-2-one
41556-26-7	bis(1,2,2,6,6-Pentamethyl-4-piperidiny)l sebacate
95-63-6	1,2,4-trimethylbenzene
122-99-6	2-Phenoxyethanol
100-41-4	ethylbenzene
108-67-8	mesitylene
82919-37-7	Methyl (1,2,2,6,6,- pentamethyl-4-piperidiny)l sebacate
104-68-7	Diethylene glycol monophenyl ether
98-82-8	cumene
77-58-7	dibutyltin dilaurate
106-79-6	Dimethyl sebacate(Impurity)
2403-89-6	4-Piperidinol, 1,2,2,6,6 pentamethyl- (Impurity)

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)

67-64-1	acetone
123-86-4	n-butyl acetate
110-43-0	heptan-2-one
1330-20-7	xylene
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene
108-83-8	2,6-dimethylheptan-4-one
64742-95-6	Solvent naphtha (petroleum), light arom.
25973-55-1	2-(2-HYDROXY-3-5-DI--(TERT)-AMYLPHENYL)BENZOTRIAZOLE
19549-80-5	4,6-dimethylheptan-2-one
41556-26-7	bis(1,2,2,6,6-Pentamethyl-4-piperidiny)l sebacate
95-63-6	1,2,4-trimethylbenzene
122-99-6	2-Phenoxyethanol
100-41-4	ethylbenzene
108-67-8	mesitylene
82919-37-7	Methyl (1,2,2,6,6,- pentamethyl-4-piperidiny)l sebacate
104-68-7	Diethylene glycol monophenyl ether

(Contd. on page 11)

Safety Data Sheet

according to HPR, Schedule 1



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 10)

98-82-8	cumene
77-58-7	dibutyltin dilaurate
106-79-6	Dimethyl sebacate(Impurity)
· Canadian Ingredient Disclosure list (limit 0.1%)	
95-63-6	1,2,4-trimethylbenzene
100-41-4	ethylbenzene
108-67-8	mesitylene
· Canadian Ingredient Disclosure list (limit 1%)	
67-64-1	acetone
123-86-4	n-butyl acetate
110-43-0	heptan-2-one
108-83-8	2,6-dimethylheptan-4-one

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

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

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

acetone

Solvent naphtha (petroleum), light arom.

n-butyl acetate

bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350 May cause cancer.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take actions to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

(Contd. on page 12)

Trade name: 50421 & 50424 World Class 4.2 VOC 4:1 Universal Clearcoat

(Contd. of page 11)

- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P321 Specific treatment (see on this label).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **National regulations:**

• **Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

• **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.

• **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** 06/20/2017 / 6

• **Abbreviations and acronyms:**

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

ICAO: International Civil Aviation Organisation

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

• *** Data compared to the previous version altered.**