

SketchNanoGard Themat: SC

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## SAFETY DATA SHEET

### SECTION 1. IDENTIFICATION

Product identifier used on the label

: **SketchNanoGard Themat: SC**

Product Code(s)

: Not available.

Recommended use of the chemical and restrictions on use

: Thermal insulation coating  
Restriction on use: None known

Chemical family

: Mixture

Name, address, and telephone number  
of the supplier:

**Sketch Nanotechnologies Inc.**

2359 Rue Guenette  
Saint-Laurent, QC, Canada  
H4R 2E9

Supplier's Telephone # : 514-333-3311(Monday - Friday, 9:00 am - 5:00 pm, Eastern Standard Time)

24 Hr. Emergency Tel # : Canutec: 613-966-6666

Name, address, and telephone number of  
the manufacturer:

Refer to supplier

### SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Black liquid. Strong Odor

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Flammable Liquids - Category 3

Skin sensitization - Category 1A

Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects

Specific target organ toxicity, single exposure - Category 3 respiratory tract irritation

Label elements

Hazard pictogram(s)



Signal Word

Warning!

Hazard statement(s)

Flammable liquid and vapour.  
May cause an allergic skin reaction.  
May cause drowsiness or dizziness.  
May cause respiratory irritation.

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### Precautionary statement(s)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep only in original container.  
Use only non-sparking tools.  
Ground and bond container and receiving equipment.  
Take precautionary measures against static discharge.  
Use explosion-proof electrical and ventilating equipment.  
Avoid breathing mist or vapours.  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before re-use.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
In case of fire: Use water fog, dry chemical, CO<sub>2</sub> or 'alcohol' foam to extinguish.

Store in a well-ventilated place. Keep cool.  
Keep container tightly closed.  
Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations. The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 23-35%

### Other hazards

Other hazards which do not result in classification:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Direct eye contact may cause slight redness.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
<b>n-Butyl-acetate</b>	1-Acetoxybutane Butyl ethanoate	123-86-4	<b>10.0 - 30.0</b>
<b>Ethylene glycol monobutyl ether acetate</b>	2-Butoxyethyl acetate Butyl glycol acetate Glycol Ether EB Acetate Ethylene glycol butyl ether acetate EGBEA	112-07-2	<b>10.0 - 30.0</b>
<b>Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-</b>	2-(2H-benzotriazol-2-yl)-4-methylphenol 2-(2'-Hydroxy-5'-methylphenyl)benzotriazole	2440-22-4	<b>5.0 - 10.0</b>
<b>1-Methoxy-2-propanol acetate</b>	2-Methoxy-1-methylethyl acetate PGMEA	108-65-6	<b>10.0 - 30.0</b>

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

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### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Call a physician or poison control centre immediately. Do not induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.
- Inhalation* : If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Get medical attention if symptoms persist.
- Skin contact* : Wash off with soap and plenty of water. If irritation or symptoms develop, seek medical attention. Wash contaminated clothing before re-use.
- Eye contact* : Immediately flush eyes with running water for at least 15 minutes. Obtain medical attention if irritation persists.

#### Most important symptoms and effects, both acute and delayed

- : Direct eye contact may cause temporary redness. Direct skin contact may cause slight or mild, transient irritation. May cause an allergic skin reaction (e.g. swelling, rash and eczema). May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically. This product is a CNS depressant.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

- : Use water fog or fine spray, foams, carbon dioxide or dry chemical. Do not use a solid water stream as it may scatter and spread fire.

##### *Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

#### Special hazards arising from the substance or mixture / Conditions of flammability

- : Flammable liquid and vapour. Vapors may travel considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Flammable Liquids - Category 3

#### Hazardous combustion products

- : Carbon monoxide, carbon dioxide, toxic vapours, gases or particulates.

#### Special protective equipment and precautions for firefighters

##### *Protective equipment for fire-fighters*

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

##### *Special fire-fighting procedures*

- : Fight fires from a safe distance. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. For personal protection see section 8.

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**Environmental precautions** : Do not allow material to contaminate ground water system. For large spills, dike the area to prevent spreading.

**Methods and material for containment and cleaning up**

: Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with inert, non-combustible absorbent material (e.g. sand, vermiculite), then place material into open, unsealed containers. For waste disposal, see Section 13 of the SDS.

**Special spill response procedures**

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): None.

### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**

: Use only in well-ventilated areas. Wear suitable protective equipment during handling. Do not ingest or swallow. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat, sparks and open flames. Use only non-sparking tools with this material. Avoid contact with incompatible materials. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not use pressure to empty drums. Do not cut, weld, drill or grind on or near this container. Follow labeled warnings even after container is emptied. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

**Conditions for safe storage** : Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

**Incompatible materials** : Strong oxidizing agents; Strong acids.; Alkali metals; Aluminium. .

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limits:</b>				
<b>Chemical Name</b>	<b>ACGIH TLV</b>		<b>OSHA PEL</b>	
	<b>TWA</b>	<b>STEL</b>	<b>PEL</b>	<b>STEL</b>
n-Butyl-acetate	50 ppm	150 ppm	150 ppm (710 mg/m <sup>3</sup> )	N/Av
Ethylene glycol monobutyl ether acetate	20 ppm	N/Av	N/Av	N/Av
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	N/Av	N/Av	N/Av	N/Av
1-Methoxy-2-propanol acetate	50 ppm (AIHA WEEL)	N/Av	N/Av	N/Av

**Exposure controls**

**Ventilation and engineering measures**

: Ensure adequate ventilation, especially in confined areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

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- Respiratory protection** : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.
- Skin protection** : Wear protective gloves. Advice should be sought from glove suppliers.
- Eye / face protection** : Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.
- Other protective equipment** : An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Other equipment may be required depending on workplace standards.
- General hygiene considerations** : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Black liquid.
- Odour** : Strong Odor
- Odour threshold** : Not available.
- pH** : N/Av
- Melting/Freezing point** : Not available.
- Initial boiling point and boiling range** : 158°C
- Flash point** : 54°C
- Flashpoint (Method)** : closed cup
- Evaporation rate (BuAe = 1)** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower flammable limit (% by vol.)** : Not available.
- Upper flammable limit (% by vol.)** : Not available.
- Oxidizing properties** : None.
- Explosive properties** : Not explosive
- Vapour pressure** : 0.277 kPa @ 20°C
- Vapour density** : Not available.
- Relative density / Specific gravity** : 1.10 ± 0.05
- Solubility in water** : Complete
- Other solubility(ies)** : Not available.
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not applicable.
- Viscosity** : Not available.
- Volatiles (% by weight)** : Not available.
- Volatile organic Compounds (VOC's)** : N/Av
- Absolute pressure of container** : N/Av

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Flame projection length : N/Ap  
Other physical/chemical comments : None known or reported by the manufacturer.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.  
Chemical stability : Stable under the recommended storage and handling conditions prescribed.  
Possibility of hazardous reactions : Hazardous polymerization will not occur.  
Conditions to avoid : Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Avoid heat, open flames, sparks, static electricity and electrical equipment.  
Incompatible materials : Incompatible materials (see Section 7).  
Hazardous decomposition products : None known, refer to hazardous combustion products in Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

Routes of entry inhalation : YES  
Routes of entry skin & eye : YES  
Routes of entry Ingestion : YES  
Routes of exposure skin absorption : NO

#### Potential Health Effects:

##### Signs and symptoms of short-term (acute) exposure

###### *Sign and symptoms Inhalation*

: Inhalation of fumes or mists may cause irritation to the nose, throat and upper respiratory tract.

###### *Sign and symptoms ingestion*

: May cause irritation of mouth, throat, and stomach.

###### *Sign and symptoms skin*

: May cause mild skin irritation.

###### *Sign and symptoms eyes*

: Direct eye contact may cause slight redness.

##### Potential Chronic Health Effects

: Prolonged or repeated skin contact may cause drying and irritation. Prolonged overexposure may cause liver and kidney effects.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

##### Reproductive effects & Teratogenicity

: Not expected to have other reproductive effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

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**Specific target organ effects** : Eyes, skin, respiratory system, digestive system, central nervous system. Liver

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification:  
Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects  
Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)

May cause drowsiness or dizziness. May cause respiratory irritation.

Not classified as specific target organ toxicity-repeated exposure.

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye and respiratory disorders.

**Synergistic materials**

: None known or reported by the manufacturer.

**Toxicological data**

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. The calculated ATE values for this mixture are:  
ATE oral = 5009.170 mg/kg  
ATE dermal = 4842.50 mg/kg  
23-35% of the mixture consists of ingredient(s) of unknown toxicity.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
n-Butyl-acetate	> 6867 ppm (32.6 mg/L) (vapour) (No mortality) 1.802 mg/L (aerosol)	10 700 mg/kg	> 5000 mg/kg
Ethylene glycol monobutyl ether acetate	> 400 mg/L (vapour)	1600 mg/kg	1490 mg/kg
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	> 1.42 mg/L (dust) (No mortality)	> 10 000 mg/kg	> 2000 mg/kg (No mortality)
1-Methoxy-2-propanol acetate	> 5320 ppm (28.7 mg/L) (vapour)	8532 mg/kg	> 19 200 mg/kg

**Other important toxicological hazards**

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Contains material that may be harmful in the environment. Avoid release to the environment. See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
n-Butyl-acetate	123-86-4	18 mg/L (Fathead minnow)	N/Av	None.
Ethylene glycol monobutyl ether acetate	112-07-2	20 - 40 mg/L (Rainbow trout)	N/Av	None.
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	2440-22-4	> 100 mg/L (Zebra fish)	N/Av	None.
1-Methoxy-2-propanol acetate	108-65-6	161 mg/L (Fathead minnow)	N/Av	None.

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<u>Ingredients</u>	CAS No	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
n-Butyl-acetate	123-86-4	44 mg/L (Daphnia magna)	23 mg/L (Read-across)	None.
Ethylene glycol monobutyl ether acetate	112-07-2	37 mg/L (Daphnia magna)	N/Av	None.
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	2440-22-4	> 1000 mg/L/24hr (Daphnia magna)	0.013 mg/L	1
1-Methoxy-2-propanol acetate	108-65-6	408 mg/L (Daphnia magna)	≥ 100 mg/L	None.

<u>Ingredients</u>	CAS No	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
n-Butyl-acetate	123-86-4	675 mg/L/72hr (Green algae)	200 mg/L/72hr	None.
Ethylene glycol monobutyl ether acetate	112-07-2	1570 mg/L/72hr (Green algae)	300 mg/L/72hr	None.
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	2440-22-4	> 100 mg/L/72hr (Green algae) (Read-across)	33 mg/L/72hr (Read-across)	None.
1-Methoxy-2-propanol acetate	108-65-6	> 1000 mg/L/72hr (Green algae)	≥ 1000 mg/L/72hr	None.

**Persistence and degradability**

: No data is available on the product itself.

**Bioaccumulation potential**

: Not expected to bioaccumulate.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
n-Butyl-acetate (CAS 123-86-4)	2.3	15.3 (estimated)
Ethylene glycol monobutyl ether acetate (CAS 112-07-2)	1.51	0.463 (calculated)
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl- (CAS 2440-22-4)	4.2	N/Av
1-Methoxy-2-propanol acetate (CAS 108-65-6)	0.36	N/Av

**Mobility in soil**

: No data is available on the product itself.

**Other Adverse Environmental effects**

: No data is available on the product itself.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal**

: See Section 7 (Handling and Storage) for further details. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

**Methods of Disposal**

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

**RCRA**

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.







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### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1263	PAINT RELATED MATERIAL	3	III	
<b>TDG Additional information</b>	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass.				
49CFR/DOT	UN1263	Paint related material	3	III	
<b>49CFR/DOT Additional information</b>	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass.				
ICAO/IATA	UN1263	Paint related material	3	III	
<b>ICAO/IATA Additional information</b>	Refer to ICAO/IATA Packing Instruction				
IMDG	UN1263	PAINT RELATED MATERIAL	3	III	
<b>IMDG Additional information</b>	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass. EmS: F-E, S-E.				

**Special precautions for user** : Keep away from heat, sparks and open flame. - No smoking.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: Not available.

### SECTION 15 - REGULATORY INFORMATION

**US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

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<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
n-Butyl-acetate	123-86-4	Yes	5000 lb/ 2270 kg	None.	No	N/Ap
Ethylene glycol monobutyl ether acetate	112-07-2	Yes	None.	None.	No	N/Ap
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	2440-22-4	Yes	None.	None.	No	N/Ap
1-Methoxy-2-propanol acetate	108-65-6	Yes	None.	None.	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Physical hazards: Flammable. Health hazards: Eye irritation, Specific target organ toxicity, single exposure. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
n-Butyl-acetate	123-86-4	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Ethylene glycol monobutyl ether acetate	112-07-2	No	N/Ap	No	No	No	Yes	No	No
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	2440-22-4	No	N/Ap	No	No	No	No	No	No
1-Methoxy-2-propanol acetate	108-65-6	No	N/Ap	No	No	No	No	No	No

### Canadian Information:

WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product.  
All ingredients are present on the DSL.

### International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
n-Butyl-acetate	123-86-4	204-658-1	Present	Present	(2)-735; (2)-731	KE-04179	Present	HSR001091
Ethylene glycol monobutyl ether acetate	112-07-2	203-933-3	Present	Present	(2)-740	KE-04135	Present	HSR001155
Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-	2440-22-4	219-470-5	Present	Present	(5)-544	KE-02741	Present	HSR003665
1-Methoxy-2-propanol acetate	108-65-6	203-603-9	Present	Present	(2)-3144	KE-23315	Present	HSR001219

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### SECTION 16. OTHER INFORMATION

- Legend**
- : ACGIH: American Conference of Governmental Industrial Hygienists
  - CA: California
  - CAS: Chemical Abstract Services
  - CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
  - CFR: Code of Federal Regulations
  - CNS: Central Nervous System
  - CSA: Canadian Standards Association
  - DOT: Department of Transportation
  - EPA: Environmental Protection Agency
  - HMIS: Hazardous Materials Identification System
  - HSDB: Hazardous Substances Data Bank
  - IARC: International Agency for Research on Cancer
  - Inh: Inhalation
  - IUCLID: International Uniform Chemical Information Database
  - LC: Lethal Concentration
  - LD: Lethal Dose
  - MA: Massachusetts
  - MN: Minnesota
  - N/Ap: Not Applicable
  - N/Av: Not Available
  - NFPA: National Fire Protection Association
  - NIOSH: National Institute of Occupational Safety and Health
  - NJ: New Jersey
  - NTP: National Toxicology Program
  - OSHA: Occupational Safety and Health Administration
  - PA: Pennsylvania
  - PEL: Permissible exposure limit
  - RCRA: Resource Conservation and Recovery Act
  - RI: Rhode Island
  - RTECS: Registry of Toxic Effects of Chemical Substances
  - SARA: Superfund Amendments and Reauthorization Act
  - STEL: Short Term Exposure Limit
  - TDG: Canadian Transportation of Dangerous Goods Act & Regulations
  - TLV: Threshold Limit Values
  - TWA: Time Weighted Average
  - WHMIS: Workplace Hazardous Materials Identification System
- References**
- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
  - 2. International Agency for Research on Cancer Monographs, searched 2016
  - 3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2016(Chempendium, HSDB and RTECs).
  - 4. Material Safety Data Sheets from manufacturer.
  - 5. US EPA Title III List of Lists - 2016 version.
  - 6. California Proposition 65 List - 2016 version.
  - 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal,2016.
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- Other special considerations for handling**
- : Provide adequate information, instruction and training for operators.

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<p><b><u>Prepared for:</u></b> Sketch Nanotechnologies Inc. 2359 Rue Guenette Saint-Laurent, QC H4R 2E9 Telephone: 514-333-3311</p>	
<p><b><u>Prepared by:</u></b> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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