



Creative Materials, Inc.  
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Ayer, MA 01432

[www.creativematerials.com](http://www.creativematerials.com)

ISO 9001 CERTIFIED

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## SAFETY DATA

REVISION DATE: 06/21/17  
REVISION: C

### 1. PRODUCT & COMPANY IDENTIFICATION:

#### 1.1 Product Identifiers:

Product (Trade) Name:	EXP 2627-40E
Brand	Creative Materials
CAS	Mixture

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses	Ink, coating
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#### 1.3 Details of the supplier of the safety data sheet:

Manufacturer	Creative Materials, Inc.
Address	12 Willow Road Ayer, MA 01432
Telephone	978.391.4700
Fax	978.391.4705
E-mail	<a href="mailto:msdsrequest@creativematerials.com">msdsrequest@creativematerials.com</a>

#### 1.4 Emergency Telephone Number

Chemtrec Emergency	011-800-424-9300
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### 2. HAZARD IDENTIFICATION:

#### 2.1 Classification of substance or mixture:

Classification according to GHS formatting

##### **DANGER!**

Flammable Liquid	Category 4
Acute Toxicity, Dermal	Category 4
Acute Toxicity, Inhalation	Category 4
Skin Irritation	Category 2
Eye Irritation	Category 2A
Reproductive Toxicity	Category 1B
STOT – Single Exposure	Category 3 (respiratory tract irritation)

#### 2.2 Label Elements:



##### **Hazard statement(s)**

H227	Combustible liquid.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.

##### **Precautionary Statement(s)**

###### **Prevention:**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P210	Keep away from heat/sparks/open flames/hot surfaces. –No smoking.
P260	Do not breath dust/fume/gas/vapor/mist/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response:</b>	
P302+P352	IF ON SKIN: wash with soap and water.
P304+P340	IF INHALED: remove victim to fresh air and keep at rest in a position 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.
P332+P313	If skin irritation occurs get medical advice/attention.
P337+P313	If eye irritation persists get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: use dry sand, dry chemical, or alcohol-resistant foam for extinction.
<b>Storage:</b>	
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.
<b>Disposal:</b>	
P501	Dispose of contents/container in a designated waste facility.

## 2.3 Other hazards:

None

## 3. COMPOSITION/INFORMATION on INGREDIENTS

### 3.1 Substances:

MATERIAL	CAS No.	%
2-Butoxyethyl acetate	112-07-2	20 – 40
N-methyl-2-pyrrolidone	872-50-4	20 – 30
Non-hazardous filler	Proprietary	15 – 25
Polymer resin	Proprietary	5 – 10
Polymer resin	Proprietary	5 – 10
Carbon	1333-86-4	2 – 10
Silica, amorphous	68611-44-9	2 – 5

## 4. FIRST AID MEASURES:

### 4.1 Description of first aid measures:

In case of eye contact - Immediately wash eyes with running water for 15 minutes. Get immediate medical attention.

In case of skin contact – Remove contaminated clothing/shoes and wash affected areas with water followed by washing with soap and water. If irritation occurs, get medical attention. Launder contaminated clothing before reuse.

If swallowed - DO NOT INDUCE VOMITING. Dilute with water or milk and call a physician immediately. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

If inhaled - Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

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

No data available

### 4.3 Indication of any medical attention and special treatment needed:

No data available

## 5. FIRE FIGHTING MEASURES:

### 5.1 Extinguishing Media

Suitable extinguishing media:

Use water fog, alcohol foam, CO<sub>2</sub> or dry chemical extinguishing media.

### 5.2 Special hazards arising from the substance or mixture:

Carbon oxides

### 5.3 Advice for firefighters:

Material will not burn unless preheated. Firefighters should not enter confined space without full bunker gear (helmet with face shield, bunkercoats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus.

### 5.4 Further information:

Not available

## 6. ACCIDENTAL RELEASE MEASURES:

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

Extinguish all sources of ignition. Wear appropriate clothing, gloves, goggles or glasses. Provide adequate ventilation.

### 6.2 Environmental Precautions:

Do not discharge into any sewage system or waterway.

### 6.3 Methods and materials for containment and cleanup:

Absorb with earth, sand, or other inert material and place in suitable containers for disposal.

### 6.4 Reference to other sections:

For disposal see section 13.

## 7. HANDLING and STORAGE:

### 7.1 Precautions for safe handling:

Observe normal standards of industrial hygiene for handling chemicals. Avoid contact with skin and eyes

### 7.2 Conditions for safe storage, including incompatibilities:

Store in a cool, dry, well ventilated area. Keep containers tightly closed and away from heat, direct sunlight and ignition sources.

### 7.3 Specific end uses:

Including but not limited to: coating applications.

## 8. EXPOSURE CONTROLS and PERSONAL PROTECTION:

### 8.1 Control Parameters:

#### Components with control parameters

MATERIAL	LIMIT VALUES
*N-methyl-2-pyrrolidone	TWA: 40 mg/m <sup>3</sup>
2-Butoxyethyl acetate	TWA: 20 ppm
Carbon	PEL: 3.5 mg/m <sup>3</sup> (as dust)
Silica, amorphous	TWA: 6 mg/m <sup>3</sup> (as dust)

“\*” Indicates that this material is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 et. seq. if present at greater than 1%.

#### Exposure controls

##### Appropriate engineering controls

Mechanically exhaust vapors at points of application. Maintain airborne contaminant levels of chemicals below their recommended TLV's or PEL's.

##### Personal protective equipment

###### Skin Protection

Avoid prolonged or repeated contact with skin. Wear impervious gloves such as nitrile, latex, or polychloroprene and other clothing to prevent contact.

###### Respiratory Protection

For confined areas or areas with poor ventilation, use an approved cartridge type, organic vapor respirator.

###### Eye Protection

Chemical goggles or safety glasses with side shields

###### Protective Clothing

Impervious gloves, coveralls, apron, boots as necessary to prevent skin contact.

## 9. PHYSICAL and CHEMICAL PROPERTIES:

### 9.1 Information on basic physical and chemical properties:

a) Appearance	Form:	Liquid
	Color:	Black

b) Odor:	Slight odor
c) Odor Threshold	Not determined
d) pH	Not determined
e) Melting/Freezing point	Not determined
f) Boiling Point	> 190°C
g) Flash Point:	> 70°C
h) Evaporation Rate	Not determined
i) Flammability (solid, gas)	Not determined
j) Upper/Lower Flammability Limits	Upper: 8.54 Lower: 0.88
k) Vapor Pressure @ 20°C	Not determined
l) Vapor Density	Heavier than air
m) Specific Gravity (water=1):	1.17 (calculated)
n) Solubility in Water	Not determined
o) Partition coefficient: n-octanol/water	Not determined
p) Auto-ignition Temperature	Not determined
q) Decomposition Temperature	Not determined
r) Viscosity (25°C)	~40,000 cps
s) Explosive Properties	Not determined
t) Oxidizing Properties	Not determined
u) Volatiles (by % wt.)	< 65

## 9.2 Other safety information:

No data available

## 10. STABILITY and REACTIVITY:

### 10.1 Reactivity:

No data available

### 10.2 Chemical Stability:

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions:

Can react vigorously with strong oxidizing agents, strong Lewis acids or mineral acids, and strong mineral and organic bases

### 10.4 Conditions to avoid:

Storage in open containers, sources of ignition, high temperatures and direct sunlight.

### 10.5 Incompatible materials:

Strong oxidizing agents, strong Lewis acids or mineral acids, and strong mineral and organic bases

### 10.6 Hazardous decomposition products:

Carbon monoxide, aldehydes, acids, and other organic substances can be formed during combustion, thermal, or oxidative decomposition. Reaction with some curing agents may produce considerable heat.

## 11. TOXICOLOGICAL INFORMATION:

### Acute Toxicity

No data available on product itself.

### N-methyl-2-pyrrolidone

LD50, dermal (rabbit) = 8,000 mg/kg

LD50, oral (mouse) = 5,130 mg/kg

### 2-Butoxyethyl acetate

LD50, oral (rat) = 2,400 mg/kg

LD50, dermal (rabbit) = 1,500 mg/kg

### Skin Corrosion/Irritation

Causes skin irritation.

### Serious Eye Damage/Irritation

Causes serious eye irritation.

**Sensitization**

No data available.

**Specific Target Organ Toxicity – Single Exposure (STOT – SE)**

May cause respiratory irritation.

**Specific Target Organ Toxicity – Repeated Exposure (STOT – RE)**

No data available.

**Carcinogenicity**

No data available.

ACGIH Classification: Not classified.

IARC Classification: Not classified.

NTP Classification: Not classified.

OSHA Classification: Not classified.

**Teratogenicity, Reproductive Toxicity, and Mutagenicity**

May damage fertility or the unborn child.

**Aspiration Hazard**

No data available.

**12. ECOLOGICAL INFORMATION:****12.1 Toxicity:**

No data available

**12.2 Persistence and degradability:**

No data available

**12.3 Bioaccumulative potential:**

No data available

**12.4 Mobility in soil:**

No data available

**12.5 Results of PBT and vPvB assessment:**

No data available

**12.6 Other information/effects:**

Do not allow discharge into drains and waterways. Avoid ground contamination.

**13. DISPOSAL RECOMMENDATIONS:****13.1 Waste treatment methods:**

Place in an appropriate disposal facility in compliance with local regulations.

**14. TRANSPORT INFORMATION:****14.1 UN number**

None

**14.2 UN proper shipping name**

DOT: Not regulated for transport

ADR/RID: Not regulated for transport

IMG: Not regulated for transport

IATA: Not regulated for transport

**14.3 Transport hazardous class(es)**

None

**14.4 Packaging group**

None

**14.5 Environmental hazards**

None

**14.6 Special precautions for user**

None

**15. REGULATORY INFORMATION:**

This safety datasheet complies with GHS formatting

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and of the Code of Federal Regulations, Part 372.

Component	CAS	Weight %
N-methyl-2-pyrrolidone	872-50-4	< 30

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**State Regulations****California Proposition 65**

This product contains (a) chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA (Toxic Substances Control Act)**

All ingredients listed or exempt.

**15.2 Chemical Safety Assessment**

No data available

**16. OTHER INFORMATION:**

HMIS Ratings: H – 2 F – 2 R – 0

To the best of our knowledge, the information contained herein is accurate and meets all State and Federal guidelines. However, Creative Materials Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of the suitability of any material is the sole responsibility of the user.

SDS prepared 21<sup>st</sup> of June 2017. Updated to GHS formatting.