

Safety Data Sheet
UltraConductive Film 4041

Safety Data Sheet dated 11/17/2020, version 1

1. IDENTIFICATION**Product identifier**

Mixture identification:
Trade name: UltraConductive Film 4041
Other means of identification:
SDS code: 2010188

Recommended use of the chemical and restrictions on use

Recommended use:
Paint/Coating
Restrictions on use:

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party**Manufacturers:**

Dysol Inc. - 5475 E. State Highway 114, Rhome Texas, 76078 / Phone: 1-817-335-1826 /
csr-na@socomore.com/ Fax Number: 817-335-2405

Distributors:

Dysol Inc. - 5475 E. State Highway 114, Rhome Texas, 76078 / Phone: 1-817-335-1826 /
csr-na@socomore.com/ Fax Number: 817-335-2405
Socomore Canada Limited - Unit 204, 6741 Cariboo Road, Burnaby V3N 4A3, British
Columbia, Canada / Email: csr-ca@socomore.com / Phone: +1 604 420 7707 / Fax: +1 604
420 7701






Competent person responsible for the safety data sheet:

techdirsocomore@socomore.com

Emergency phone number:

CHEMTEL: 1+1-813-248-0585 (International); 1-800-255-3924 (USA); CANUTEC:
1-613-996-6666 (CANADA)

2. HAZARD(S) IDENTIFICATION**Classification of the chemical**

-  Warning, Flam. Liq. 3, Flammable liquid and vapour.
-  Warning, Skin Irrit. 2, Causes skin irritation.
-  Warning, Skin Sens. 1B, May cause an allergic skin reaction.
-  Danger, Repr. 1B, May damage fertility or the unborn child.
-  Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Label elements

Hazard pictograms:



Safety Data Sheet**UltraConductive Film 4041****Danger****Hazard statements:**

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H360 May damage fertility or the unborn child.
- H410 Very toxic to aquatic life with long lasting effects.

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/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash ... Thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water/...
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see ... On this label).
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use ... to extinguish.
- P391 Collect spillage.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substances**

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

>= 40% - < 50% 2-methoxy-1-methylethyl acetate

REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9




B.6/3 Flam. Liq. 3 H226

Safety Data Sheet**UltraConductive Film 4041**

>= 30% - < 40% Silver Powder/Silver Flakes

CAS: 7440-22-4, EC: 231-131-3

 US-HAE/C1 Aquatic Chronic 1 H410

>= 10% - < 12.5% Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

CAS: 9003-36-5, EC: 500-006-8

 A.2/2 Skin Irrit. 2 H315

 A.4.2/1B Skin Sens. 1B H317

>= 1% - < 3% butanone; ethyl methyl ketone

REACH No.: 01-2119457290-43, Index number: 606-002-00-3, CAS: 78-93-3, EC: 201-159-0

 A.2/2 Skin Irrit. 2 H315

 B.6/2 Flam. Liq. 2 H225

 A.3/2A Eye Irrit. 2A H319

 A.8/3 STOT SE 3 H336

>= 1% - < 3% Nanostrentgh CRP N Powder

 A.3/2A Eye Irrit. 2A H319

 A.8/3 STOT SE 3 H335

 A.2/2 Skin Irrit. 2 H315

>= 0.1% - < 0.25% 2,2'-iminodiethylamine; diethylenetriamine

Index number: 612-058-00-X, CAS: 111-40-0, EC: 203-865-4

 A.2/1B Skin Corr. 1B H314

 A.4.2/1 Skin Sens. 1 H317


 A.1/4/Oral Acute Tox. 4 H302

 A.1/4/Dermal Acute Tox. 4 H312

>= 0.1% - < 0.25% 1-EHTYLPYRROLIDIN-2-ONE

REACH No.: 01-2119472138-36, CAS: 2687-91-4, EC: 220-250-6

B.6/4 Flam. Liq. 4 H227

 A.3/1 Eye Dam. 1 H318

 A.7/1B Repr. 1B H360

Safety Data Sheet

UltraConductive Film 4041

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.
Remove contaminated clothing immediately and dispose of safely.
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Protect uninjured eye.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not induce vomiting. Obtain a medical examination.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No particular treatment.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

In case of fire: Use ... to extinguish.

Unsuitable extinguishing media

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

Safety Data Sheet

UltraConductive Film 4041

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
 Exercise the greatest care when handling or opening the container.
 Do not use on extensive surface areas in premises where there are occupants.
 Don't use empty container before they have been cleaned.
 Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
 See also section 8 for recommended protective equipment.
 Advice on general occupational hygiene:
 Contaminated clothing should be changed before entering eating areas.
 Do not eat or drink while working.

Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.
 Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 Avoid accumulating electrostatic charge.
 Keep away from food, drink and feed.
 Incompatible materials:
 None in particular.
 Instructions as regards storage premises:
 Cool and adequately ventilated.
 Safety electric system.
 Storage temperature:
 Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
 - OEL Type: ACGIH - TWA(8h): 150 ppm - STEL: 100 ppm
 - OEL Type: National - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm -
 Notes: France VLEC
 - OEL Type: National - TWA(8h): 270 mg/m³, 50 ppm - Notes: GERMANY
 - OEL Type: National - TWA(8h): 274 mg/m³, 50 ppm - STEL: 548 mg/m³, 100 ppm -
 Notes: UK (WELs)
 - OEL Type: National - TWA: 260 mg/m³ - STEL: 520 mg/m³ - Notes: POLAND
 - OEL Type: EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm -
 Notes: Skin
 - OEL Type: AIHA
 - TWA: 50 ppm
 - OEL Type: National - TWA: 275 mg/m³, 50 ppm - STEL(5 min (Mow)): 550 mg/m³,
 100 ppm - Notes: Osterreich

Silver Powder/Silver Flakes - CAS: 7440-22-4
 - OEL Type: EU - TWA(8h): 0.1 mg/m³
 - OEL Type: ACGIH - TWA(8h): 0.1 mg/m³ - Notes: Metal dust and fume. - Argyria
 - OEL Type: ACGIH - TWA(8h): 0.01 mg/m³ - Notes: Soluble compounds, as Ag. -
 Argyria

butanone; ethyl methyl ketone - CAS: 78-93-3
 - OEL Type: National - TWA: 600 mg/m³, 200 ppm - STEL: 900 mg/m³, 300 ppm -
 Notes: France VLEC
 - OEL Type: EU - TWA(8h): 600 mg/m³, 200 ppm - STEL: 900 mg/m³, 300 ppm
 - OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr,
 CNS and PNS impair
 - OEL Type: National - TWA: 600 mg/m³, 200 ppm - Notes: AGW, Germany

Safety Data Sheet

UltraConductive Film 4041

- OEL Type: MAK - TWA: 295 mg/m³, 100 ppm - STEL(30min (Miw)): 590 mg/m³, 200 ppm - Notes: Osterreich

2,2'-iminodiethylamine; diethylenetriamine - CAS: 111-40-0

- OEL Type: ACGIH - TWA(8h): 1 ppm - Notes: Skin - URT and eye irr

DNEL Exposure Limit Values

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Worker Industry: 796 mg/kg b.w./day - Consumer: 320 mg/kg b.w./day - Exposure:

Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 275 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 36 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 550 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation -

Frequency: Long Term, local effects

butanone; ethyl methyl ketone - CAS: 78-93-3

Worker Industry: 1161 mg/kg - Consumer: 412 mg/kg - Exposure: Human Dermal -

Frequency: Short Term (acute) - Notes: 1 day

Worker Industry: 600 mg/m³ - Consumer: 106 mg/m³ - Exposure: Human Inhalation -

Frequency: Short Term (acute)

Consumer: 31 mg/kg - Exposure: Human Oral - Frequency: Short Term (acute)

1-EHTYLPYRROLIDIN-2-ONE - CAS: 2687-91-4

Worker Industry: 80 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 8 mg/kg - Consumer: 4 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Industry: 40 mg/m³ - Consumer: 10 mg/m³ - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Worker Industry: 40 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

PNEC Exposure Limit Values

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Target: Fresh Water - Value: 0.635 mg/l

Target: Marine water - Value: 0.0635 mg/l

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Freshwater sediments - Value: 3.29 mg/kg dw

Target: Marine water sediments - Value: 0.329 mg/kg dw

Target: Soil - Value: 0.29 mg/kg

Target: PNEC intermittent - Value: 6.35 mg/l

butanone; ethyl methyl ketone - CAS: 78-93-3

Target: Fresh Water - Value: 55.8 mg/l

Target: Marine water - Value: 55.8 mg/l

Target: Freshwater sediments - Value: 284.74 mg/kg

Target: Marine water sediments - Value: 287.7 mg/kg

Target: Soil (agricultural) - Value: 22.5 mg/kg

1-EHTYLPYRROLIDIN-2-ONE - CAS: 2687-91-4

Target: Fresh Water - Value: 0.25 mg/l

Target: Marine water - Value: 0.025 mg/l

Target: Freshwater sediments - Value: 1.91 mg/kg

Target: Soil (agricultural) - Value: 0.235 mg/l

Target: Marine water sediments - Value: 0.191 mg/kg

Target: Microorganisms in sewage treatments - Value: 10 mg/l

Appropriate engineering controls:

None

Safety Data Sheet

UltraConductive Film 4041

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Value	Method:	Notes
Appearance and colour:	Silver Liquid	--	--
Odour:	Solvent	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	80 - 146	--	--
Flash Point (°F):	113	--	--
Flash point (°C):	45	--	--
Evaporation rate:	Slower than n-butyl acetate	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	Not determined	--	--
Vapour density:	Heavier than air	--	--
Relative density:	N.A.	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	Not determined	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	Not determined	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

Safety Data Sheet

UltraConductive Film 4041

9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

10. STABILITY AND REACTIVITY

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 10.8 mg/l

Test: LC50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC0 - Route: Inhalation Vapour - Species: Rabbit = 23.5 mg/l

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol - CAS: 9003-36-5

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 MGKGBWDAY

Test: LD50 - Route: Skin - Species: Rat = 2000 mg/kg - Duration: 48h

butanone; ethyl methyl ketone - CAS: 78-93-3

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LC50 - Route: Inhalation > 5000 ppm

1-EHTYLPYRROLIDIN-2-ONE - CAS: 2687-91-4

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3200 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5.1 mg/l - Duration: 4h

Substance(s) listed on the NTP report on Carcinogens:

None.

Safety Data Sheet

UltraConductive Film 4041

Substance(s) listed on the IARC Monographs:

None.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

None.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 1000 mg/l

Endpoint: LC50 - Species: Fish = 134 mg/l

Endpoint: EC50 - Species: Daphnia = 408 mg/l

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 47.5 mg/l - Duration h: 336 - Notes: Oryzias latipes

Endpoint: NOEC - Species: Daphnia > 100 mg/l - Duration h: 504

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol - CAS: 9003-36-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2.54 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 2.55 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 1.5 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: EC50 - Species: Daphnia = 0.3 mg/l - Duration h: 504

butanone; ethyl methyl ketone - CAS: 78-93-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 13 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 168 - Notes: Desmodesmus subspicatus

1-EHTYLPYRROLIDIN-2-ONE - CAS: 2687-91-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 464 mg/l - Duration h: 96 - Notes: Danio rerio

Endpoint: EC50 - Species: Daphnia > 104 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae > 101 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 12.5 mg/l - Duration h: 504

c) Bacteria toxicity:

Endpoint: EC50 - Species: bacteria > 1.000 mg/l - Duration h: 16

Persistence and degradability

butanone; ethyl methyl ketone - CAS: 78-93-3

Biodegradability: Readily biodegradable - Duration: 28 days - %: 98 - Notes: aerobic

Bioaccumulative potential

butanone; ethyl methyl ketone - CAS: 78-93-3

Log Pow 0.3

Log Kow 0.3

Mobility in soil

N.A.

Safety Data Sheet

UltraConductive Film 4041

Other adverse effects

No harmful effects expected.

13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

Disposal should be in accordance with applicable regional, national and local laws and regulations. Please consult Technical Data Sheet for details.

14. TRANSPORT INFORMATION



UN number

ADR-UN Number:	1133
DOT number:	UN1133
IATA-UN Number:	1133
IMDG-UN Number:	1133

UN proper shipping name

ADR-Shipping Name:	ADHESIVES
DOT-Shipping Name:	ADHESIVES
IATA-Shipping Name:	ADHESIVES
IMDG-Shipping Name:	ADHESIVES

Transport hazard class(es)

ADR-Class:	3
DOT Hazard Class:	3
ADR - Hazard identification number:	30
IATA-Class:	3
IATA-Label:	3
IMDG-Class:	3

Packing group

ADR-Packing Group:	III
DOT Packing group:	III
IATA-Packing group:	III
IMDG-Packing group:	III

Environmental hazards

ADR-Environmental Pollutant:	Yes
IMDG-Marine pollutant:	Yes

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)
N.A.

Special precautions

DOT Special provisions:	B1, B52, IB3, T2, TP1
ADR-Subsidiary hazards:	-
ADR-S.P.:	-
ADR-Transport category (Tunnel restriction code):	3 (D/E)
IATA-Passenger Aircraft:	355
IATA-Subsidiary hazards:	-
IATA-Cargo Aircraft:	366

Safety Data Sheet

UltraConductive Film 4041

IATA-S.P.:	A3
IATA-ERG:	3L
IMDG-EmS:	F-E , S-D
IMDG-Subsidiary hazards:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

List of substances included in the TSCA inventory: 2-methoxy-1-methylethyl acetate, Silver Powder/Silver Flakes, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol, butanone; ethyl methyl ketone, 2,2'-iminodiethylamine; diethylenetriamine, 1-EHTYLPYRROLIDIN-2-ONE.

List of substances not included in the TSCA inventory: Nanostrentgh CRP N Powder.

TSCA sections for substances listed in section 3:

2-methoxy-1-methylethyl acetate is listed in TSCA Section 8d HSDR, Section 8b, Section 8a - PAIR

Silver Powder/Silver Flakes is listed in TSCA Section 8b

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol is listed in TSCA Section 8b

butanone; ethyl methyl ketone is listed in TSCA Section 8d HSDR, Section 8b

2,2'-iminodiethylamine; diethylenetriamine is listed in TSCA Section 8d HSDR, Section 8b

1-EHTYLPYRROLIDIN-2-ONE is listed in TSCA Section 8b.

SARA - Superfund Amendments and Reauthorization Act

Section 302 Extremely Hazardous Substances: no substances listed.

Section 304 Hazardous substances: Silver Powder/Silver Flakes, butanone; ethyl methyl ketone.

Section 313 Toxic chemical list: Silver Powder/Silver Flakes.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: Silver Powder/Silver Flakes - Reportable quantity: 1000 pounds

butanone; ethyl methyl ketone - Reportable quantity: 5000 pounds.

Reportable quantity for mixture: 3084.515731 pounds.

CAA - Clean Air Act

CAA listed substances:

butanone; ethyl methyl ketone is listed in CAA Section 111, Section 112(b) - HAP, Section 112(b) - HON.

CWA - Clean Water Act

CWA listed substances:

Silver Powder/Silver Flakes is listed in CWA Section 304, CWA Priority Pollutants.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

butanone; ethyl methyl ketone

2,2'-iminodiethylamine; diethylenetriamine.

Safety Data Sheet**UltraConductive Film 4041**

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

Silver Powder/Silver Flakes

butanone; ethyl methyl ketone

2,2'-iminodiethylamine; diethylenetriamine.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Silver Powder/Silver Flakes

butanone; ethyl methyl ketone

2,2'-iminodiethylamine; diethylenetriamine.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H410 Very toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H335 May cause respiratory irritation.

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H227 Combustible liquid.

H318 Causes serious eye damage.

H360 May damage fertility or the unborn child.

Safety Data Sheet dated 11/17/2020, version 1

Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.

Safety Data Sheet

UltraConductive Film 4041

IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average