



SAFETY DATA SHEET

Safety Data Sheet according to regulation (EC) No 1907/2006 & 1272/2008 and amendments

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier: Nylon Film/Fabric/Felt
Product Description: Nylon film

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended/Recommended Use: Tooling

Other Product Names: HS8171, HS8171 6/66, 58179, 51789SRB, SV2000, VINYL SPIRAL WRAP, A100PS, 51789.I.O, 51789.NAT, B100, B100BLEU, HS6262, VAC PAK HS6262, D300, AB40, AB40N, A100FLOGREEN, MQ251, 41661, 52006, 52008, B-100, B4444.
This SDS covers multiple products. For industrial exposure and emergency response purposes, all listed products above have similar physical, chemical and hazard properties.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: Cytec Industries Inc., 504 CARNEGIE CENTER, PRINCETON, NEW JERSEY 08540, USA.
For Product and all Non-Emergency Information call 1-800/652-6013. Outside the USA and Canada call +1-973/357-3193 or your local Cytec contact point. E-mail: custinfo@solvay.com.

Local Contact Information: Cytec Industries Inc., Abenbury Way, Wrexham Industrial Estate, Wrexham Clwyd LL139UZ, GB
Telephone: +44 1-97866-5200

EMERGENCY PHONE (24 hours/day) - For emergency only involving spill, leak, fire, exposure or accident call:

Asia Pacific:

Australia - +61 2 8014 4558 (Carechem24)
China (PRC) - +86 0532 83889090 (NRCC) +86 512 8090 3042 (Carechem24)
New Guinea - +61 2 8014 4558 (Carechem24)
New Zealand - +64 9 929 1483 (Carechem24)
India, Japan, Korea, Malaysia, Thailand - +65 3158 1074 (Carechem24 Singapore)
India (Hindi Speaking Only) - +65 3158 1198 or 000800 100 7479 (Carechem24 Singapore)

Canada: 800 424 9300 (Within US,Canada) +1 (703) 527-3887 (International)

Europe/Africa/Middle East (Carechem24 UK):

Europe, Middle East, Africa, Israel - +44 1235 239 670
(Arabic speaking countries) - +44 1235 239 671

Latin America:

Brazil - +55 11 3197 5891 (Carechem24)
Chile - +56 2 2582 9336 (Carechem24)
All Others - +44 (0) 1235 239 670 (Carechem24 UK)

USA: 800 424 9300 (Within US,Canada) +1 (703) 527-3887 (International)

2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No 1272/2008 and amendments

This product does not meet the classification requirements of the current European legislation on classification and labelling.

LABEL ELEMENTS

Not applicable

Hazard Statements

Not applicable

Precautionary Statements

Precautionary statements on the label will be reduced as indicated in Regulation (EC) No 1272/2008, Article 28.

Not applicable

OTHER HAZARDS

By excessive exposure to dust, eye and respiratory tract irritation is possible.

RESULTS OF PBT AND vPvB ASSESSMENT

Not determined

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance, Mixture or Article? Article

Component / CAS No.	%	EC-No	REACH Registration Number	Classification according to Regulation (EC) No 1272/2008 (CLP)	M-Factor	SVHC
Caprolactam 105-60-2	1 - 5	203-313-2	Not available	Acute Tox. 4 (H302) Acute Tox. 4 (H332) STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		

See Section 16 for full text of H phrases.

4. FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

Eye Contact:

Not an expected route of exposure.

Skin Contact:

Wash immediately with plenty of water and soap.

Ingestion:

Not an expected route of exposure.

Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

None known

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDS

Not applicable

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable Extinguishing Media:

Use water spray or fog, carbon dioxide or dry chemical.

Extinguishing Media to Avoid:

full water jet.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

None known

ADVICE FOR FIREFIGHTERS

Protective Equipment:

Firefighters, and others exposed, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Refer to Section 8 (Exposure Controls/Personal Protection) for appropriate personal protective equipment.

Environmental Precautions:

None known

Methods and material for containment and cleaning up:

Sweep up into containers for disposal. Flush spill area with water.

References to other sections:

See Sections 8 and 13 for additional information.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Precautionary Measures: Avoid contact with skin and clothing. Wash thoroughly after handling.

Special Handling Statements: Heating or curing of unused rolls or sheets of product prior to disposal is not recommended. Heating a large mass of product can lead to a rapid decomposition reaction, generating heat, smoke and possibly fire. Provide good ventilation of working area (local exhaust ventilation if necessary).

Conditions for safe storage, including any incompatibilities:

Store in accordance with local, state, and federal regulations.

Storage Temperature: Room temperature

Reason: Quality.

Storage Class (TRGS 510): 11

Specific end use(s):

Refer to Section 1 or Exposure Scenario if applicable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

105-60-2 Caprolactam

United Kingdom: WEL (Workplace Exposure Limits)	1 mg/m ³ dust only (TWA) 10 mg/m ³ dust and vapour (TWA) 3 mg/m ³ dust only (STEL) 20 mg/m ³ dust and vapour (STEL)
Europe ILV (Indicative Limit Values):	Not established
Other Value:	Not established

EXPOSURE CONTROLS

Engineering Measures:

Engineering controls are not usually necessary if good hygiene practices are followed.

Respiratory Protection:

Where exposures are below the established exposure limit, no respiratory protection is required.

Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure.

Eye protection:

Wear eye/face protection.

Skin Protection:

Avoid skin contact.

Wear impermeable gloves.

Hand protection:

Wear impermeable gloves. Replace gloves immediately when torn or any change in appearance (dimension, colour, flexibility etc) is noticed.

The chemical resistance depends on the type of product and amount of product on the glove. Therefore gloves need to be changed when in contact with chemicals.

Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.

Additional Advice:

Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Colour:	color varies
Appearance:	film, fabric or felt
Odor:	none
Odor Threshold:	See Section 8 for exposure limits.
pH:	Not applicable

Melting Point:	215 - 265 °C
Boiling Point:	Not applicable
Flash point:	>400 °C
Evaporation Rate:	Not applicable
Flammability (solid, gas):	Not available
Flammable Limits (% By Vol):	Not available
Vapor Pressure:	Not applicable
Vapour density:	Not available
Specific Gravity/Density:	Not available
Solubility In Water:	negligible
Partition coefficient (n-octanol/water):	Not available
Autoignition (Self) Temperature:	>450 °C
Decomposition Temperature:	>350 °C
Viscosity (Kinematic):	Not available
Viscosity (Dynamic):	Not available

OTHER INFORMATION

Fat Solubility (Solvent-Oil):	Not available
Percent Volatile (% by wt.):	Not available
Solids Content:	Not applicable
Saturation In Air (% By Vol.):	Not applicable
Acid Number (mg KOH/g):	Not available
Hydroxyl Value (mg KOH/g):	Not available
Volatile Organic Content (1999/13/EC):	Not available
Dissociation Constant:	Not available
Explosion Properties:	Not available
Oxidizing Properties:	Not available
Granulometry (Particle Size):	Not available

DUST HAZARD INFORMATION

Particle Size (microns):	Not available
Kst (bar-m/sec):	Not available
Maximum Explosion Pressure (Pmax):	Not available
Dust Class:	Not available
Minimum Ignition Energy (MIE) (mJ):	Not available
Minimum Ignition Temperature (MIT) (°C):	Not available
Minimum Explosive Concentration (MEC) (g/m³):	Not available
Limiting Oxygen Concentration (LOC) (%):	Not available

10. STABILITY AND REACTIVITY

Reactivity: No information available

CHEMICAL STABILITY

Stability: Stable

POSSIBILITY OF HAZARDOUS REACTIONS

Polymerization: Will not occur

Conditions To Avoid: Avoid contact with sunlight or ultraviolet light. Avoid exposure to temperatures exceeding recommended processing conditions.

Incompatible materials: Strong acids or bases, Strong oxidizing agents.

Hazardous Decomposition Products:

- aldehydes
- hydrogen cyanide (HCN)
- nitrogen oxides
- Amine
- ketones
- ammonia
- Caprolactam
- Carbon monoxide and carbon dioxide
- Nitrites

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure: Skin.

Acute toxicity - oral: Not classified - Based on physical form, not an expected route of exposure.

Acute toxicity - dermal: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Acute toxicity - inhalation: Not Classified - Based on physical form, not an expected route of exposure.

Skin corrosion / irritation: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Serious eye damage / eye irritation: Not Classified - Based on physical form, not an expected route of exposure.

Respiratory sensitization: Not Classified - Based on physical form, not an expected route of exposure.

Skin sensitization: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Carcinogenicity: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Germ cell mutagenicity: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Reproductive toxicity: Not Classified. - Based on available data and/or professional judgment, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Aspiration hazard: Not Classified - Based on physical form, not an expected route of exposure.

PRODUCT TOXICITY INFORMATION

ACUTE TOXICITY DATA

oral	rat	Acute LD50	Not an expected route of exposure
dermal	rabbit	Acute LD50	>2000 mg/kg
inhalation	rat	Acute LC50 4 hr	Not an expected route of exposure

LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	Skin	No data
Acute Irritation	eye	Not an expected route of exposure

ALLERGIC SENSITIZATION

Sensitization	Skin	Not sensitizing
Sensitization	respiratory	Not an expected route of exposure

GENOTOXICITY**Assays for Gene Mutations**

Ames Salmonella Assay	No data
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OTHER INFORMATION

The product toxicity information above has been estimated.

HAZARDOUS INGREDIENT TOXICITY DATA

Acute overexposure to caprolactam vapor may cause respiratory irritation. Dermal contact with caprolactam dust may cause skin irritation. The oral (rat) and dermal (rabbit) LD50 values are 1.4-2.1 g/kg and 1.4 g/kg, respectively. The acute inhalation (rat) 4-hr LC50 for a 50% (w/v) in water aerosol exposure was 8.16 mg/L (based on percent active LC50 is ~ 4mg/L). Exposure to caprolactam and ethyl alcohol has resulted in reddening of the skin.

12. ECOLOGICAL INFORMATION**TOXICITY, PERSISTENCE AND DEGRADABILITY, BIOACCUMULATIVE POTENTIAL, MOBILITY IN SOIL, OTHER ADVERSE EFFECTS**

This material is not classified as dangerous for the environment.
Environmental exposure from substances of this preparation are limited due to the physical form of the product.

MOBILITY IN SOIL

Not available

RESULTS OF PBT AND vPvB ASSESSMENT

Not determined

HAZARDOUS INGREDIENT TOXICITY DATA

Component / CAS No.	Toxicity to Algae	Toxicity to Fish	Toxicity to Water Flea
Caprolactam 105-60-2	EC50 4320 - 4800 mg/L - Pseudokirchneriella subcapitata (72h) EC50 = 130 mg/L - Desmodesmus subspicatus (72h) EC50 = 160 mg/L - Desmodesmus subspicatus (96h)	LC50 = 1400 mg/L - Pimephales promelas (96h) static LC50 = 930 mg/L - Lepomis macrochirus (96h) static	EC50 828 - 2920 mg/L - Daphnia magna (48h) EC50 > 500 mg/L - Daphnia magna Straus (48h)

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

The Company encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, The Company recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

ADR/RID/ADN

Dangerous Goods? Not applicable/Not regulated

IMO

Dangerous Goods? Not applicable/Not regulated

ICAO / IATA

Dangerous Goods? Not applicable/Not regulated

15. REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Ozone Depleting Substances (Regulation (EC) No 1005/2009): Not applicable

Persistent Organic Pollutants (Regulation (EC) No 850/2004): Not applicable

Prior Informed Consent (Regulation (EC) No 689/2008): Not applicable

Substances subject to Authorization (Annex XIV of Regulation (EC) No 1907/2006): Not applicable

This product is defined as an article according to REACH and therefore not subject to Authorization.

Substances subject to Restrictions for certain applications(Annex XVII of Regulation(EC)No 1907/2006):

Not applicable

Water Endangering Class (Germany): Not a water pollutant

Inventory Information

European Economic Area (including EU): This product is an article that does not intentionally release substances under normal conditions of use and is therefore exempt from the registration requirements under the REACH Regulation (EC) No. 1907/2006.

United States (USA):

All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

Canada:

All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

Australia: All components of this product are included in the Australian Inventory of Chemical Substances (AICS) or are not required to be listed on AICS.

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Japan: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory.

Philippines: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine inventory.

Taiwan: All components of this product are included on the Taiwan Chemical Substance Inventory (TCSI) or are not required to be listed on the Taiwan inventory.

CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

Reasons for Issue: Revised Section 1

Date Prepared: 01-Mar-2017

Date of last significant revision: 01-Mar-2017

Classification methods include one or more of the following: use of specific product data, read-across data, modeling, professional judgment or a component based evaluation.

Component Hazard Phrases

Caprolactam

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

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