

Safety Data Sheet

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: Nylon 12

Product code: FLP12G01

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

Relevant identified uses: For use in Formlabs Fuse Printers

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

United States

Formlabs, Inc
35 Medford St
Suite 201 Somerville, MA 02143
+1 617 855 0762
sds@formlabs.com

Supplier:

Germany

Formlabs GmbH
Nalepastr. 18
Berlin, . 12459
+49 30 700 146 501

1.4 Emergency telephone number:

European Union

CHEMTREC (EMEA)

+44 20 3885 0382 (24/7)

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 (CLP): The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

Hazard-determining components of labeling:

Carbon Black

Additional Information: None

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms: None

Signal Word: None

Hazard statements: None

Precautionary statements: None

2.3 Other hazards:

Dust may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

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Identification	EU REACH Registration No.	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 1333-86-4 EC number: 215-609-9	-	Carbon Black	Carc. 2; H351	<1

Additional information: None

Full Text of H and EUH statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Not determined or not available.

Following inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention.

Following skin contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

Following eye contact:

Not determined or not available.

Following ingestion:

Not determined or not available.

Self-Protection of the first aider:

Not determined or not available.

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Product presents an explosion hazard when suspended in air under certain conditions. Inhalation of large amounts of dust may cause inflammation and irritation of the nose and throat. Symptoms may include cough, sore throat, tightness of the chest, chest pain and lightheadedness.

Delayed symptoms and effects:

Not determined or not available.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Not determined or not available.

Notes for the doctor:

Not determined or not available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Not determined or not applicable.

Unsuitable extinguishing media:

Not determined or not applicable.

5.2 Special hazards arising from the substance or mixture:

May form combustible dust concentrations in air. Reacts with water and alcohols. Reacts violently with

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oxidants, strong acids and bases and chlorinated hydrocarbons. This generates a fire and explosion hazard. Thermal decomposition may produce irritating/toxic fumes/gases.

5.3 Advice for firefighters

Personal protection equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution. Violent reactions may result from the use of a water jet or halogenated extinguishing agents. When using extinguishers, avoid dispersing combustible dust into the air. Aim extinguishers directly at the base of the flames and apply the agent as gently as possible. Overall, give preference to using medium to wide spray patterns rather than solid streams. Use only non-sparking tools. Fire fight from a protected location or maximum possible distance. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Not determined or not applicable.

6.2 Environmental precautions:

Not determined or not applicable.

6.3 Methods and material for containment and cleaning up:

Avoid dust generation or stirring up of dust. Use only non-sparking tools. Ground all equipment used for recovery and clean up. Vacuum up and place in suitable containers for future disposal. Only use vacuum cleaners approved for dust collection. Dispose of in accordance with all applicable regulations (see Section 13).

6.4 Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Use dust explosion proof electrical equipment and lighting. Avoid dust generation and dispersal of dust in air. Dust deposits should not be allowed to accumulate on surfaces. Clean dust residues at regular intervals. Do not use brooms or compressed air hoses to clean surfaces. Only use vacuums approved for dust collection. Use only nonsparking tools. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions such as electrical grounding and bonding or inner atmospheres. Keep containers tightly closed and grounded when not in use. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10).

7.2 Conditions for safe storage, including any incompatibilities:

Not determined or not applicable.

7.3 Specific end use(s):

Not determined or not applicable.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Croatia	Carbon Black	1333-86-4	8-Hour TWA: 3.5 mg/m ³
	Carbon Black	1333-86-4	15-Minute STEL: 7 mg/m ³
Cyprus	Carbon Black	1333-86-4	8-Hour TWA: 3.5 mg/m ³
Czech Republic	Carbon Black	1333-86-4	8-Hour TWA: 10 mg/m ³ (dust)
Poland	Carbon Black	1333-86-4	8-Hour TWA: 4 mg/m ³ (inhalable fraction)
Slovakia	Carbon Black	1333-86-4	8-Hour TWA: 2 mg/m ³
Belgium	Carbon Black	1333-86-4	8-Hour TWA: 3 mg/m ³
Denmark	Carbon Black	1333-86-4	8-Hour TWA: 3.5 mg/m ³
	Carbon Black	1333-86-4	STEL: 7 mg/m ³
Finland	Carbon Black	1333-86-4	8-Hour TWA: 3.5 mg/m ³
	Carbon Black	1333-86-4	15-Minute STEL: 7 mg/m ³
France	Carbon Black	1333-86-4	8-Hour TWA: 3.5 mg/m ³
Greece	Carbon Black	1333-86-4	8-Hour TWA: 3.5 mg/m ³
	Carbon Black	1333-86-4	15-Minute STEL: 7 mg/m ³
Ireland	Carbon Black	1333-86-4	8-Hour TWA: 3 mg/m ³ (inhalable fraction)
Italy	Carbon Black	1333-86-4	8-Hour TWA: 3 mg/m ³ (inhalable fraction)
Portugal	Carbon Black	1333-86-4	8-Hour TWA: 3 mg/m ³
Spain	Carbon Black	1333-86-4	8-Hour TWA: 3.5 mg/m ³
United Kingdom	Carbon Black	1333-86-4	8-Hour TWA: 3.5 mg/m ³
	Carbon Black	1333-86-4	15-Minute STEL: 7 mg/m ³
Sweden	Carbon Black	1333-86-4	8-Hour TWA: 3 mg/m ³
Bulgaria	Carbon Black	1333-86-4	TWA: 3.5 mg/m ³ (soot, inhalable fraction)
Hungary	Carbon Black	1333-86-4	8-Hour TWA: 3 mg/m ³ (inhalable dust)
Latvia	Carbon Black	1333-86-4	8-Hour TWA: 4 mg/m ³ (Dust)
Lithuania	Carbon Black	1333-86-4	8-Hour TWA: 10 mg/m ³ (Dust, inhalable fraction)
	Carbon Black	1333-86-4	8-Hour TWA: 5 mg/m ³ (Dust, respirable fraction)
Slovenia	Carbon Black	1333-86-4	8-Hour TWA: 10 mg/m ³ (Dust, inhalable fraction)
	Carbon Black	1333-86-4	15-Minute STEL: 20 mg/m ³ (Dust, inhalable fraction)
	Carbon Black	1333-86-4	8-Hour TWA: 1.25 mg/m ³ (Dust, respirable fraction)
	Carbon Black	1333-86-4	15-Minute STEL: 2.5 mg/m ³ (Dust, respirable fraction)
Austria	Carbon Black	1333-86-4	8-Hour TWA: 5 mg/m ³ (Dust, biologically inert, respirable fraction)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Carbon Black	1333-86-4	60-Minute STEL: 10 mg/m ³ (Dust, biologically inert, respirable fraction)
	Carbon Black	1333-86-4	8-Hour TWA: 10 mg/m ³ (Dust, biologically inert, inhalable fraction)
	Carbon Black	1333-86-4	60-Minute STEL: 20 mg/m ³ (Dust, biologically inert, inhalable fraction)
Germany (TRGS 900)	Carbon Black	1333-86-4	Limit Value: 1.25 mg/m ³ (General dust limit value, respirable fraction)
	Carbon Black	1333-86-4	8-Hour TWA: 10 mg/m ³ (General dust limit, inhalable fraction)
Germany (MAK)	Carbon Black	1333-86-4	8-Hour TWA: 4 mg/m ³ (Dust, general threshold limit value, inhalable fraction)
	Carbon Black	1333-86-4	15-Minute STEL: 20 mg/m ³ (General dust limit, inhalable fraction)
Estonia	Carbon Black	1333-86-4	8-Hour TWA: 5 mg/m ³ (total dust)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL):

Ingredient Name: Carbon Black

CAS #: 1333-86-4

Workers - Systemic Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified
Workers - Local Effects	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified
General Population - Systemic Effects	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	No hazard identified
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified

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General Population - Local Effect	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
	Acute - Dermal	No hazard identified
	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified

Predicted No Effect Concentration (PNEC):

Ingredient Name: Carbon Black

CAS #: 1333-86-4

Environmental Protection Target	PNEC
Fresh water	No hazard identified
Freshwater sediments	No hazard identified
Marine water	No hazard identified
Marine sediments	No hazard identified
Microorganisms in sewage treatment	No hazard identified
Soil (agricultural)	No hazard identified
Air	No hazard identified
Food chain	No exposure expected

Information on monitoring procedures:

Not determined or not applicable.

8.2 Exposure controls

Appropriate engineering controls:

This product is a combustible material which may be ignited by friction, heat, sparks or flames. It is recommended that all dust control equipment (such as local exhaust ventilation and material transport systems) involved in handling this product contain explosion relief vents or an explosion suppression system. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area. Keep static electricity under control, which includes the bonding and grounding of equipment. Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal protection equipment

Eye and face protection:

Not determined or not applicable.

Skin and body protection:

Not determined or not applicable.

Respiratory protection:

Not determined or not applicable.

General hygienic measures:

Not determined or not applicable.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Product (substance / mixture) related measures to prevent exposure:	Not determined or not applicable.
Instruction measures to prevent exposure:	Not determined or not applicable.

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Organisational measures to prevent exposure:	Not determined or not applicable.
Technical measures to prevent exposure:	Not determined or not applicable.

Risk management measures to control exposure:

Not determined or not applicable.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Powder
Color	Black
Odor/Odor threshold	None
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Flammability	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Relative vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	> 842 °F (> 450 °C)
Decomposition temperature	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Particle characteristics	Not determined or not available.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosives	No data available/Not applicable
Flammable gases	No data available/Not applicable
Aerosols	No data available/Not applicable
Oxidizing gases	No data available/Not applicable
Gases under pressure	No data available/Not applicable
Flammable liquids	No data available/Not applicable
Flammable solids	No data available/Not applicable
Self-reactive substances and mixtures	No data available/Not applicable
Pyrophoric liquids	No data available/Not applicable
Pyrophoric solids	No data available/Not applicable
Self-heating substances and mixtures	No data available/Not applicable

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Substances and mixtures, which emit flammable gases in contact with water	No data available/Not applicable
Oxidizing liquids	No data available/Not applicable
Oxidizing solids	No data available/Not applicable
Organic peroxides	No data available/Not applicable
Corrosive to metals	No data available/Not applicable
Desensitized explosives	No data available/Not applicable

9.2.2 Other safety characteristics

None.

SECTION 10: Stability and reactivity

10.1 Reactivity:

Does not react under normal conditions of use and storage.

10.2 Chemical stability:

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions:

None under normal conditions of use and storage.

10.4 Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, static discharge, ignition sources, dust generation and accumulation and incompatible materials.

10.5 Incompatible materials:

None known.

10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition giving flammable, toxic and corrosive products: Carbon oxides Ammonia Hydrogen cyanide (hydrocyanic acid)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Carbon Black	oral	LD50 Rat: >2000 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: > 4.6 mg/L (4 hr [dust])

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Serious eye damage/irritation

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Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Species	Result
Carbon Black	Not applicable	Suspected of causing cancer by inhalation.

International Agency for Research on Cancer (IARC):

Name	Classification
Carbon Black	Group 2B

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

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11.2 Information on other hazards

Endocrine disrupting properties:

Substance data: No data available.

Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Carbon Black	Fish LC50 Danio rerio: >1000 mg/L (96 hr)
	Aquatic Plants EC50 Raphidocelis subcapitata: >100 mg/L (72 hr [growth rate and cell number])
	Aquatic Invertebrates EC50 Daphnia magna: >100 mg/L (48 hr [immobilisation and toxicity])

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Carbon Black	Aquatic Invertebrates EC50 Daphnia magna: 4.9 mg/L (16 d [immobilization; QSAR])

12.2 Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Carbon Black	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.

12.3 Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Carbon Black	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.

12.4 Mobility in soil

Product data: No data available.

Substance data:

Name	Result
Carbon Black	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.

12.5 Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

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vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

Carbon Black	PBT assessment does not apply to inorganic compounds such as this substance.
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vPvB assessment:

Carbon Black	vPvB assessment does not apply to inorganic compounds such as this substance.
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12.6 Endocrine disrupting properties

Substance data: No data available.

12.7 Other adverse effects: No data available.

12.8 Hazard to the ozone layer

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal:

Packaging material should be recycled or disposed of in accordance with federal, state, and local regulations

Waste codes / waste designations according to LoW: Not determined or not available.

13.1.2 Waste treatment-relevant information: Not determined or not available.

13.1.3 Sewage disposal-relevant information: Not determined or not available.

13.1.4 Other disposal recommendations:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

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International Maritime Dangerous Goods (IMDG)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Maritime Transport in Bulk according to IMO Instruments

Bulk Name	None
Ship type	None
Pollution category	None
IMO hazard class	None
Environmental hazards	None
Material hazardous only in bulk	None
Cargo Group	None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

European regulations

Inventory listing (EINECS): All ingredients are listed or exempt.

REACH SVHC candidate list: None of the ingredients are listed.

REACH SVHC Authorizations: None of the ingredients are listed.

REACH Restriction: None of the ingredients are listed.

Water hazard class (WGK) (Product): Not determined.

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Carbon Black	1333-86-4	Non-hazardous to water

Other regulations

Germany TA Luft: None of the ingredients are listed.

Additional information:

MAL Code: 0-1

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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SECTION 16: Other information

Abbreviations and Acronyms: None

Summary of classification(s) in section 3:

Carc. 2	Carcinogenicity, category 2
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Summary of hazard statements in section 3:

H351	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
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Disclaimer:

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End of Safety Data Sheet