



We create chemistry

Safety Data Sheet

80U-10 FlexAdditive

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Version: 9.0

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(30778971/SDS_GEN_CA/EN)

1. Identification

Product identifier used on the label

80U-10 FlexAdditive

Recommended use of the chemical and restriction on use

Recommended use*: Paints, Coatings and Related Materials; for industrial use only

Unsuitable for use: Not intended for sale to or use by the general public.

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF Canada Inc.
5025 Creekbank Road
Building A, Floor 2
Mississauga, ON, L4W 0B6, CANADA

Telephone: +1 289 360-1300

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Chemical family: Coating

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Skin Sens.	1	Skin sensitization
Carc.	2	Carcinogenicity
Repr.	2 (fertility)	Reproductive toxicity
STOT SE	3 (May cause)	Specific target organ toxicity — single exposure

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	drowsiness and dizziness.)	
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic
Flam. Liq.	2	Flammable liquids

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P202	Do not handle until all safety precautions have been read and understood.
P240	Ground and bond container and receiving equipment.
P233	Keep container tightly closed.
P243	Take action to prevent static discharges.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P242	Use non-sparking tools.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing mist or vapour or spray.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

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P312	Call a POISON CENTER or physician if you feel unwell.
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 attention.
P337 + P313	If eye irritation persists: Get medical attention.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P403 + P235	Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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Hazards not otherwise classified

No applicable information available.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

n-Butyl acetate

CAS Number: 123-86-4
Content (W/W): ≥ 15.0 - $< 20.0\%$
Synonym: Essigsäure-n-butylester

Acetone

CAS Number: 67-64-1
Content (W/W): ≥ 5.0 - $< 7.0\%$
Synonym: 2-Propanone Acetone; Dimethyl ketone

4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene

CAS Number: 98-56-6
Content (W/W): ≥ 5.0 - $< 7.0\%$
Synonym: No data available.

cyclohexane

CAS Number: 110-82-7
Content (W/W): ≥ 0.3 - $< 1.0\%$
Synonym: Hexahydrobenzene; Cyclohexane

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

CAS Number: 41556-26-7
Content (W/W): ≥ 0.3 - $< 1.0\%$
Synonym: Decanedioic acid bis(1,2,2,6,6-pentamethyl-4-piperidiny) ester

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Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
CAS Number: 82919-37-7
Content (W/W): ≥ 0.1 - $< 0.2\%$
Synonym: Decanedioic acid, 1-methyl 10-(1,2,2,6,6-pentamethyl-4-piperidinyl) ester

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air. If breathing difficulties develop, aid in breathing and seek immediate medical attention.

If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

If in eyes:

Flush with copious amounts of water for at least 15 minutes. Hold eyelids open to facilitate rinsing. If irritation develops, seek medical attention. Seek medical attention.

If swallowed:

Immediate medical attention required. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Rinse mouth and then drink 200-300 ml of water.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Information on: Acetone

Symptoms: Overexposure may cause:, Eye irritation, irritates the eyes and respiratory tract, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps, CNS depression

Information on: cyclohexane

Symptoms: Overexposure may cause:, unconsciousness, lethargy, dizziness

Information on: n-Butyl acetate

Symptoms: Overexposure may cause:, unconsciousness, vomiting, weakness, coordination disorder, nausea, diarrhea, coughing, headache

Information on: bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Symptoms: Overexposure may cause:, skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

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Information on: Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Symptoms: Overexposure may cause: skin irritation, erythema, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps

Information on: 4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene

Symptoms: Overexposure may cause: lethargy, nausea, headache, dizziness

Hazards: No applicable information available.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Suitable extinguishing media:

carbon dioxide, foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

Vapors and/or decomposition products are irritant and/or toxic. If product is heated above decomposition temperature acrid smoke and fumes will be released.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Notify proper authorities. Do not flood burning material with water due to potential spreading of fire. Flash fire may occur. Run-off water from fire may cause pollution. Contain contaminated water/firefighting water. Remove product from areas of fire, or otherwise cool sealed containers with water in order to avoid pressure build up due to heat. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Use antistatic tools. Extinguish sources of ignition nearby and downwind. Avoid prolonged inhalation. Wear suitable personal protective clothing and equipment. Ensure adequate ventilation.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

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Dike spillage. Spills should be contained, solidified, and placed in suitable containers for disposal. Place into appropriately labeled waste containers.

7. Handling and Storage

Precautions for safe handling

Handle and open container with care. WARNING: Empty containers may still contain hazardous residue. Use static lines when mixing and transferring material. Do not puncture, drop, or slide containers. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing.

Protection against fire and explosion:

Risk of explosion if heated under confinement. Use antistatic tools. Exhaust fans should be explosion proof. Avoid all sources of ignition: heat, sparks, open flame. Provide adequate ventilation to remove solvent vapors from lower levels or work areas and to prevent solvent contact with ignition sources. Sealed containers should be protected against heat as this results in pressure build-up.

Conditions for safe storage, including any incompatibilities

Segregate from strong bases. Segregate from oxidizing agents. Segregate from incompatible substances. Segregate from strong acids.

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container tightly closed. Protect from direct sunlight.

Storage stability:

Consult local fire marshal for storage requirements.

Protect from temperatures above: 49 °C

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

Acetone	ACGIH, US:	TWA value 250 ppm ;
	ACGIH, US:	STEL value 500 ppm ;
	OSHA Z1:	PEL 1,000 ppm 2,400 mg/m3 ;
cyclohexane	ACGIH, US:	TWA value 100 ppm ;
	OSHA Z1:	PEL 300 ppm 1,050 mg/m3 ;
n-Butyl acetate	ACGIH, US:	STEL value 150 ppm ;
	ACGIH, US:	TWA value 50 ppm ;
	OSHA Z1:	PEL 150 ppm 710 mg/m3 ;

Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination. Respiratory protection may not be required under normal operating conditions if adequate ventilation

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is provided. Wear a NIOSH-certified (or equivalent) organic vapour respirator. Particulate filters should be added during spray operations. Wear respiratory protection if ventilation is inadequate.

Hand protection:

Use appropriate chemically impervious gloves as determined by an evaluation of glove performance characteristics and the hazards and potential hazards identified, including but not limited to butyl, natural and synthetic rubber, nitrile, or neoprene.

Eye protection:

Wear face shield if splashing hazard exists. Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Work place should be equipped with a shower and an eye wash. Remove contaminated clothing. Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. Contact lenses should not be worn. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	aromatic	
Odour threshold:	No applicable information available.	
Colour:	water white, clear	
pH value:	No applicable information available.	
	substance/mixture is non-polar/aprotic	
Melting point:	No applicable information available.	
Freezing point:	No applicable information available.	
Boiling range:	74 - 84 °C	
Sublimation point:	No applicable information available.	
Flash point:	6 °C	(ASTM D3278)
	The product burns self-sustainingly	
Flammability:	No applicable information available.	
Lower explosion limit:	No applicable information available.	
Upper explosion limit:	12.80 %(V)	
Autoignition:	No applicable information available.	
Vapour pressure:	109.00 hPa (20 °C) 378.00 hPa (50 °C)	
Density:	1.081 g/cm3 (20 °C)	
Relative density:	1.0810 (20 °C)	
Vapour density:	Heavier than air.	
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures	
Thermal decomposition:	No applicable information available.	
Viscosity, dynamic:	No applicable information available.	
Viscosity, kinematic:	20.7 mm2/s (23 °C)	

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	(40 °C)
	No data available.
Solubility in water:	No applicable information available.
Miscibility with water:	immiscible
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
Molar mass:	No applicable information available.
Evaporation rate:	No applicable information available.

10. Stability and Reactivity

Reactivity

No applicable information available.

Chemical stability

The product is chemically stable.

Possibility of hazardous reactions

No applicable information available.

Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static discharge.

Incompatible materials

strong oxidizing agents, strong bases, strong acids

Hazardous decomposition products

Decomposition products:
carbon dioxide, carbon monoxide

Thermal decomposition:
No applicable information available.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Primary routes of entry

Solvents are absorbed through the skin.

Acute Toxicity/Effects

Acute toxicity

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

Oral

Type of value: LD50

Species: rat

Value: 7,190.000000 mg/kg

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Type of value: ATE

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Inhalation

Type of value: LC50

Species: rat

Value: > 21.100000 mg/l

Type of value: ATE

Value: > 20 mg/l

The product has not been tested. The statement has been derived from the properties of the individual components.

Dermal

Type of value: LD50

Species: rabbit

Value: > 14,000.000000 mg/kg

Type of value: ATE

Value: > 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment other acute effects

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation.

Information on: Acetone

Assessment of irritating effects: Irritating to eyes. Not irritating to the skin. Repeated exposure may cause skin dryness or cracking.

Information on: cyclohexane

Assessment of irritating effects: Skin contact causes irritation. EU-classification Not irritating to the eyes.

Information on: n-Butyl acetate

*Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.
Not irritating to the skin. May cause slight irritation to the eyes.*

Information on: bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Assessment of irritating effects: May cause slight irritation to the skin. Not irritating to the eyes.

Information on: Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Assessment of irritating effects: May cause slight irritation to the skin. Not irritating to the eyes.

Information on: 4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene

Assessment of irritating effects: May cause slight irritation to the skin. Not irritating to the eyes.

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Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

Information on: bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Assessment of sensitization:

Sensitization after skin contact possible.

Information on: Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Assessment of sensitization:

Sensitization after skin contact possible.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

Information on: Acetone

Assessment of repeated dose toxicity: The substance may cause damage to the testes after repeated ingestion of high doses, as shown in animal studies. The substance may cause damage to the hematological system after repeated ingestion of high doses. The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

Information on: cyclohexane

Assessment of repeated dose toxicity: Repeated exposure to the substance by inhalative administration leads to effects similar to those found after single exposure.

Information on: n-Butyl acetate

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.

Information on: bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Assessment of repeated dose toxicity: The substance may reversibly affect the nervous system, but there are no indications of permanent nerve cell damage. The effects were only observed at doses/concentrations not relevant for classification and/or practical use conditions.

Information on: Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Assessment of repeated dose toxicity: The substance may reversibly affect the nervous system, but there are no indications of permanent nerve cell damage. The effects were only observed at doses/concentrations not relevant for classification and/or practical use conditions.

Information on: 4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene

Assessment of repeated dose toxicity: Repeated exposure to the substance by oral administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by inhalative administration leads to effects similar to those found after single exposure. May affect the liver and kidneys as indicated in animal studies. Overexposure may cause blood abnormalities.

Genetic toxicity

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

Carcinogenicity

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Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests.

Information on: 4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests. On the basis of currently available information, a final assessment is not possible.

IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). NTP listed as reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect.

Information on: Acetone

Assessment of reproduction toxicity: As shown in animal studies, the product may cause damage to the testes after repeated high exposures that cause other toxic effects.

Information on: bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: 4-Chloro-.alpha.,.alpha.,.alpha.-trifluorotoluene

Assessment of reproduction toxicity: The potential to impair fertility cannot be excluded when given at high doses. On the basis of currently available information, a final assessment is not possible. No reproductive toxic effects reported.

Teratogenicity

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

Information on: bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Assessment of teratogenicity: In animal studies the substance did not cause malformations. The potential to cause toxicity to development cannot be excluded at maternally toxic doses.

Information on: Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Assessment of teratogenicity: In animal studies the substance did not cause malformations. The potential to cause toxicity to development cannot be excluded at maternally toxic doses.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Harmful to aquatic life. Harmful to aquatic life with long lasting effects. There are no test results available for this product. Do not allow to enter drains or waterways.

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13. Disposal considerations

Waste disposal of substance:

Do not incinerate closed containers. The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste. Do not discharge into drains/surface waters/groundwater.

Must be disposed of or incinerated in accordance with local regulations.

Container disposal:

Do not reuse containers without commercial reconditioning. WARNING: Empty containers may still contain hazardous residue.

14. Transport Information

Land transport

TDG

Hazard class:	3
Packing group:	II
ID number:	UN 1866
Hazard label:	3
Proper shipping name:	RESIN SOLUTION

Sea transport

IMDG

Hazard class:	3
Packing group:	II
ID number:	UN 1866
Hazard label:	3
Marine pollutant:	NO
Proper shipping name:	RESIN SOLUTION

Air transport

IATA/ICAO

Hazard class:	3
Packing group:	II
ID number:	UN 1866
Hazard label:	3
Proper shipping name:	RESIN SOLUTION

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

NFPA Hazard codes:

Health: 2 Fire: 3 Reactivity: 0 Special:

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16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2024/02/08

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET