

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27
Version: 5.1

Page: 1/11
(30779527/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

60U-05 Catalyst

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 CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.	4 (oral)	Acute toxicity
Acute Tox.	3 (dermal)	Acute toxicity
Acute Tox.	3 (Inhalation - vapour)	Acute toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Skin Sens.	1	Skin sensitization
Repr.	1 (unborn child)	Reproductive toxicity
Repr.	1 (fertility)	Reproductive toxicity

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27

Version: 5.1

Page: 2/11

(30779527/SDS_GEN_US/EN)

STOT RE	1	Specific target organ toxicity — repeated exposure
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic
Muta.	2	Germ cell mutagenicity
STOT SE	1	Specific target organ toxicity — single exposure
Flam. Liq.	3	Flammable liquids

Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H360	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.
H412	Harmful to aquatic life with long lasting effects.
H372	Causes damage to organs (Immune system) through prolonged or repeated exposure.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash contaminated body parts thoroughly after handling.
P242	Use only non-sparking tools.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P202	Do not handle until all safety precautions have been read and understood.
P270	Do not eat, drink or smoke when using this product.
P260	Do not breathe dust or mist.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P201	Obtain special instructions before use.

Precautionary Statements (Response):

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27
Version: 5.1

Page: 3/11
(30779527/SDS_GEN_US/EN)

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P311	IF exposed or concerned: Call a POISON CENTER or physician.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P330	Rinse mouth
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P303 + P361 + P353	IF ON SKIN (or hair): Remove or Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337 + P313	If eye irritation persists: Get medical attention.
P308 + P313	IF exposed or concerned: Get medical attention.
P314	Get medical advice/attention if you feel unwell.
P311	Call a POISON CENTER or physician.

Precautionary Statements (Storage):

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.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
------	---

Hazards not otherwise classified

No applicable information available.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

dibutyltin dilaurate

CAS Number: 77-58-7
Content (W/W): ≥ 1.0 - $< 3.0\%$
Synonym: Dibutylbis[1-oxododecyl]oxy]stannane; Dibutyltin dilaurate

2,4-pentanedione

CAS Number: 123-54-6
Content (W/W): ≥ 75.0 - $\leq 100.0\%$
Synonym: Acetylacetone

4. First-Aid Measures

Description of first aid measures

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27
Version: 5.1

Page: 4/11
(30779527/SDS_GEN_US/EN)

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). 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: dibutyltin dilaurate

Symptoms: Overexposure may cause:, unconsciousness, vomiting, abdominal cramps, dyspnea, diarrhea, coughing

Information on: 2,4-pentanedione

Symptoms: Overexposure may cause:, unconsciousness, vomiting, nausea, headache, dizziness

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

Extinguishing media

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.

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27
Version: 5.1

Page: 5/11
(30779527/SDS_GEN_US/EN)

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.

A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities.

Methods and material for containment and cleaning up

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.

Proper ventilation and respiratory protection is required when sanding, flame cutting, welding or brazing coated surfaces. Do not apply to hot surfaces.

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:

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27
Version: 5.1

Page: 6/11
(30779527/SDS_GEN_US/EN)

Consult local fire marshal for storage requirements.
Protect from temperatures above: 49 °C

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

dibutyltin dilaurate	ACGIH, US:	TWA value 0.1 mg/m3 (tin (Sn));
	ACGIH, US:	STEL value 0.2 mg/m3 (tin (Sn));
	OSHA Z1:	PEL 0.1 mg/m3 (tin (Sn));
	ACGIH, US:	Skin Designation (tin (Sn)); Danger of cutaneous absorption
2,4-pentanedione	ACGIH, US:	TWA value 25 ppm ;
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption

Advice on system design:

General mechanical ventilation should comply with OSHA 1910.94.
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. Wear a NIOSH-certified (or equivalent) organic vapour respirator. Particulate filters should be added during spray operations. Wear respiratory protection if ventilation is inadequate.

Observe OSHA regulations for respirator use (29 CFR 1910.134).

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:	product specific
Odour threshold:	No applicable information available.

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27

Version: 5.1

Page: 7/11

(30779527/SDS_GEN_US/EN)

Colour:	No applicable information available.	
pH value:	No applicable information available.	
Melting point:	No applicable information available.	
Freezing point:	No applicable information available.	
Boiling range:	140.00 - 204.00 °C 284.00 - 399.20 °F	
Sublimation point:	No applicable information available.	
Flash point:	32.78 °C 91.00 °F	(ASTM D3278) (ASTM D3278)
Flammability:	No applicable information available.	
Lower explosion limit:	No applicable information available.	
Upper explosion limit:	No applicable information available.	
Autoignition:	No applicable information available.	
Vapour pressure:	6.86 mmHg (20 °C)	
Density:	0.9799 g/cm3 (20 °C)	(calculated)
	8.1781 lb/USg	(calculated)
Relative density:	0.9800 (20 °C)	
Vapour density:	No applicable information available.	
Partitioning coefficient n-octanol/water (log Pow):	No applicable information available.	
Thermal decomposition:	No applicable information available.	
Viscosity, dynamic:	No applicable information available.	
Viscosity, kinematic:	> 20.600 mm2/s	
Solubility in water:	No applicable information available.	
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.

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27
Version: 5.1

Page: 8/11
(30779527/SDS_GEN_US/EN)

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.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of pronounced toxicity after short-term inhalation. Of pronounced toxicity after short-term skin contact.

Information on: dibutyltin dilaurate

Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact.

Information on: 2,4-pentanedione

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Of pronounced toxicity after short-term skin contact. Of pronounced toxicity after short-term inhalation.

Assessment other acute effects

Assessment of STOT single:

A single exposure may have relevant toxic effects on organs.

Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

Information on: dibutyltin dilaurate

Assessment of irritating effects: Corrosive! Damages skin and eyes.

Sensitization

Assessment of sensitization: Sensitization after skin contact possible.

Information on: dibutyltin dilaurate

Assessment of sensitization:

Sensitization after skin contact possible.

Information on: 2,4-pentanedione

Assessment of sensitization:

The chemical structure suggests a sensitizing effect.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: Repeated exposure to small quantities may affect certain organs.

Information on: dibutyltin dilaurate

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27

Version: 5.1

Page: 9/11

(30779527/SDS_GEN_US/EN)

Assessment of repeated dose toxicity: Repeated exposure to small quantities may affect certain organs.

Information on: 2,4-pentanedione

Assessment of repeated dose toxicity: Repeated inhalation exposure to large quantities may affect certain organs. Damages the central nerve system.

Genetic toxicity

Assessment of mutagenicity: Mutagenic properties can not be excluded on the basis of experimental data.

Information on: dibutyltin dilaurate

Assessment of mutagenicity: Mutagenic properties can not be excluded on the basis of experimental data.

Carcinogenicity

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

Reproductive toxicity

Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals.

Information on: dibutyltin dilaurate

Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Teratogenicity

Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.

Information on: dibutyltin dilaurate

Assessment of teratogenicity: The substance caused malformations/developmental toxicity in laboratory animals.

Information on: 2,4-pentanedione

Assessment of teratogenicity: The substance did not cause malformations in animal studies. When given in high doses fetotoxicity was observed.

The substance did not cause malformations in animal studies; however, toxicity to development was observed at doses that were toxic to the parental animals.

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.

Additional information

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27
Version: 5.1

Page: 10/11
(30779527/SDS_GEN_US/EN)

Other ecotoxicological advice:
Acutely toxic for aquatic organisms.

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.

Incinerate or dispose of in a RCRA-licensed facility. Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

WARNING: Empty containers may still contain hazardous residue.
Dispose of in accordance with national, state and local regulations.

14. Transport Information

Land transport

USDOT

Hazard class:	3
Packing group:	III
ID number:	UN 2310
Hazard label:	3, 6.1
Proper shipping name:	PENTANE-2,4-DIONE

Sea transport

IMDG

Hazard class:	3
Packing group:	III
ID number:	UN 2310
Hazard label:	3, 6.1
Marine pollutant:	NO
Proper shipping name:	PENTANE-2,4-DIONE

Air transport

IATA/ICAO

Hazard class:	3
Packing group:	III
ID number:	UN 2310
Hazard label:	3, 6.1
Proper shipping name:	PENTANE-2,4-DIONE

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

Safety Data Sheet

60U-05 Catalyst

Revision date : 2022/04/27
Version: 5.1

Page: 11/11
(30779527/SDS_GEN_US/EN)

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	123-54-6	2,4-pentanedione
PA	123-54-6	2,4-pentanedione

NFPA Hazard codes:

Health: 3 Fire: 3 Reactivity: 0 Special:

HMIS III rating

Health: 3α Flammability: 3 Physical hazard: 0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2022/04/27

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.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET