TPV-D201066-81

Version 2.1

Issue Date	:	11/29/2022	Ref. 130000151198
Revision Date	:	03/22/2019	

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	TPV-D201066-81
Product Use	:	Polymer
Restrictions on use	:	For research use only.
Manufacturer/Supplier	:	Celanese Sales U.S. Ltd. 222 West Las Colinas Boulevard Suite 900N Irving, TX 75039
Telephone	:	+1 972-443-4000 E-mail address: HazCom@celanese.com
E-mail address	:	1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency	:	Domestic NA: 800-424-9300 International, CALL +1 703-527-3887 (collect calls a

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category

Combustible dust

Label content

Pictogram	:	not required
Signal word	:	Warning
Hazardous warnings	:	If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
Hazardous prevention measures	:	not required

Other hazards

No applicable data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Silane compound		<2 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : No applicable data available.
Inhalation : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin contact : The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Obtain medical treatment for thermal burn.

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Ingestion : No specific intervention is indicated. Consult a physician if necessary.

Most important symptoms/effects, acute and delayed : No applicable data available.
Protection of first-aiders : No applicable data available.
Notes to physician : No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media	:	No applicable data available.
Specific hazards	:	Combustible . Large molten masses may ignite spontaneously in air. Water quenching is good practice. Minimize the generation and accumulation of dust. Failure or malfunction of temperature control systems on processing equipment, such as extruders, may create explosion hazards. Hazardous combustion products may include: (see also section 10) Carbon monoxide, Carbon dioxide.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus and protective suit.
Further information	:	Evacuate personnel and keep upwind of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel)	:	Spilled material is a slipping hazard.
Environmental precautions	:	Do not discharge to streams, ponds, lakes or sewers.
Spill Cleanup	:	Spills of fine material should be cleaned using gentle sweeping or vacuuming. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools.
Accidental Release Measures	:	No applicable data available.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel)	:	Open container only in well-ventilated area. Wash hands thoroughly after handling. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. Do not breathe dust. Minimize the generation and accumulation of dust. Pneumatic conveying and other mechanical handling operations can generate combustible dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
Handling (Physical Aspects)	:	No applicable data available.
Dust explosion class	:	No applicable data available.
Storage	:	Store in a cool, dry place. Keep container closed to prevent contamination. Keep in an area equipped with sprinklers.
Storage period	:	No applicable data available.
Storage temperature	:	No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	:	General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits. Use local exhaust to completely remove vapors and fumes liberated during hot processing from the work area.
Personal protective equipment		
Respiratory protection	:	Additives in this product do not present a respiration hazard unless the product is ground to a powder of respirable size and the dust is inhaled. All dusts are potentially injurious to the respiratory tract if respirable particles are generated and inhaled. A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer. Use a positive pressure air supplied respirator if exposure levels are not known or there are any other circumstances where air purifying respirators may not provide adequate protection. Consult the OSHA respiratory protection information located at 29CFR 1910.134.
Hand protection	:	Additional protection: Wear leather or cotton gloves when grinding, sawing, routing, drilling or sanding., When handling hot material, use heat resistant

gloves.

Eye protection : Wear safety glasses with side shields. Wear tightly fitting chemical splash goggles and face shield when possibility exists for eye and face contact due to spattering or splashing of molten material. A full-face mask respirator provides protection from eye irritation.

Skin and body protection : If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.

Exposure Guidelines
Exposure Limit Values

3-Aminopropyltriethoxysilane
No applicable data available.

Non-Constituent(s)

Dust (inhalable and respirable fraction)

PEL (Permissible Exposure Limit) (OSHA) 50 Million particles per cubic foot TWA total dust

Based on impinger samples counted by light-field techniques.
All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.
mppcf X 35.3 = million particles per cubic meter = particles per c.c

PEL (Permissible Exposure Limit) (OSHA) 15 mg/m3 TWA total dust

All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.

PEL (Permissible Exposure Limit) (OSHA) 5 mg/m3 TWA respirable fraction

All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated

		(PNOR) limit in Table Z-1.		
PEL (Permissible Exposure Limit)	(OSHA)	15 Million particles per cubic foot fraction	TWA	respirable
		Based on impinger samples counted by light-field techniques. All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. mppcf X 35.3 = million particles per cubic meter = particles per c.c		
TLV	(ACGIH)	3 mg/m3	TWA	Respirable fraction
TLV	(ACGIH)	10 mg/m3	TWA	Inhalable fraction

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance		
Physical state	:	solid
Form	:	pellets
Color	:	natural, white, black
Odor	:	fish-like
Odor threshold	:	No applicable data available.
pH	:	Not applicable
Melting point/range	:	No applicable data available.
Boiling point/boiling range	:	Boiling point/boiling range Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form combustible dust concentrations in air during processing, handling or other means.

Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapor pressure	:	Not applicable
Vapor density	:	Not applicable
Specific gravity (Relative density)	:	No applicable data available.
Water solubility	:	No applicable data available.
Solubility(ies)	:	No applicable data available.
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No applicable data available.
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	Stable at normal ambient temperature and pressure.
Possibility of hazardous reactions	:	Polymerization will not occur.
Conditions to avoid	:	Temperature Avoid prolonged exposure at or above the recommended processing temperatures. Decomposes on heating. At temperatures above the "conditions to avoid" temperature, thermal decomposition of the resin accelerates. Decomposition can occur below the recommended processing temperature limit.

Decomposition is a function of both processing temperature and time at that temperature.

Incompatible materials : Strong acids Strong bases, Strong oxidizing agents

Hazardous decomposition products : Hazardous thermal decomposition products may include:
Carbon monoxide, Acrylic acid, formic acid, acetaldehydes, Acrolein, Tetrahydrofuran, carbon dioxide, Aldehydes, Ketones, Organic acids, Acetic acid, Maleic anhydride, Formaldehyde , 2-Methylpropene , Propionaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

TPV-D201066-81

Further information : No data is available on the product itself.For additional toxicity data, write to the company address or call the non-emergency number shown in Section 1.

Silane compound

Inhalation : Rat
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Dermal LD50 : 4,290 mg/kg , Rabbit

Oral LD50 : 1,570 mg/kg , Rat

Skin irritation : Causes burns., Rabbit

Eye irritation : Corrosive, Rabbit

Skin sensitization : May cause sensitisation by skin contact., Guinea pig

Repeated dose toxicity : Oral
Rat
-
NOAEL: 200 mg/kgMethod: OECD Test Guideline 408
No toxicologically significant effects were found.

Carcinogenicity : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.

Mutagenicity : Animal testing did not show any mutagenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.

Teratogenicity : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

This product does not contain any reportable carcinogens according to OSHA Hazard Communication Standard 2012.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Silane compound

96 h LC50 : Danio rerio (zebra fish) > 934 mg/l OECD Test Guideline 203
Information given is based on data obtained from similar substances.

72 h ErC50 : Desmodesmus subspicatus (green algae) > 1,000 mg/l Directive 67/548/EEC, Annex V, C.3.

72 h NOEC : Desmodesmus subspicatus (green algae) 1.3 mg/l Directive 67/548/EEC, Annex V, C.3.

48 h EC50 : Daphnia magna (Water flea) 311 mg/l OECD Test Guideline 202

Environmental Fate

Silane compound

Biodegradability : Biodegradable Directive 67/548/EEC Annex V, C.4.A.
Readily biodegradable.

Bioaccumulation : OECD Test Guideline 305C

Bioaccumulation is unlikely.

Additional ecological information : No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product : Preferred options for disposal are recycling or incineration with energy recovery. The high fuel value of this product makes incineration very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA : One or more constituents are not listed in the TSCA Chemical Substances Inventory. Restricted to research and development activities as defined in 40 CFR 720.36.

SARA 311/312 Hazard classification : Combustible dust
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitisation

SARA 313 Regulated Chemical(s) : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Celanese

TPV-D201066-81

Version 2.1

Issue Date	:	11/29/2022	Ref. 130000151198
Revision Date	:	03/22/2019	

PA Right to Know Regulated Chemical(s)	:	Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Butyl acrylate, Methanol
NJ Right to Know Regulated Chemical(s)	:	Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Carbon black
California Prop. 65	:	This product does not contain any substances requiring a warning under the Safe Drinking Water and Toxic Enforcement Act.

SECTION 16. OTHER INFORMATION

Restrictions for use :

Read the product information datasheet for this product or the molding guide for this resin family.
Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Issue Date	:	11/29/2022
Revision Date	:	03/22/2019

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Celanese

TPV-D201066-81

Version 2.1

Issue Date	:	11/29/2022	Ref. 130000151198
Revision Date	:	03/22/2019	

Celanese TPV-D201066-81

Components: Silane compound

Warning

Hazard statements: If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

Refer to Safety Data Sheet (SDS) for further information.

Celanese Sales U.S. Ltd.
222 West Las Colinas Boulevard Suite 900N
Irving, TX 75039

Product Information: +1 972-443-4000 E-mail address: HazCom@celanese.com
Medical Emergency: 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency: CHEMTREC: Domestic NA: 800-424-9300 International, CALL +1 703-527-3887 (co

Version 2.1
Revision Date 03/22/2019
Issue Date 11/29/2022
Ref. 130000151198