

**ZYTFE7108 NC010 concentrate (CA)**

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
7.1	04-19-2024	300000003968	Date of first issue: 01-29-2024

**SECTION 1. IDENTIFICATION**

Product name : ZYTFE7108 NC010 concentrate (CA)

Product code : 000000000027041551

**Manufacturer or supplier's details**

Company name of supplier : Celanese Sales U.S. Ltd.  
Address : 222 West Las Colinas Boulevard Suite 900N  
Irving TX 75039  
Telephone : '+1 972-443-4000  
E-mail address of person responsible for the SDS : HazCom@celanese.com  
Emergency telephone number : DOMESTIC NORTH AMERICA: 800-424-9300  
INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)

**Recommended use of the chemical and restrictions on use**

Recommended use : Polymer  
Restrictions on use : For manufacturing and research use only

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Combustible dust

Eye irritation : Category 2A

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Specific target organ toxicity - repeated exposure : Category 2 (hematopoietic system, Thyroid)

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H373 May cause damage to organs (hematopoietic system, Thyroid) through prolonged or repeated exposure.

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## Precautionary statements

: **Prevention:**

P260 Do not breathe dust.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear eye protection/ face protection.

**Response:**

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor 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.  
P314 Get medical advice/ attention if you feel unwell.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Storage:**

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

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Additional Labelling**

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: < 50 %

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 33.9897 %

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Potassium bromide	7758-02-3	30 - 50

Actual concentration is withheld as a trade secret, Only components that require disclosure according to OSHA Hazard Communication Standard 2012 are listed.

**SECTION 4. FIRST AID MEASURES**

If inhaled : 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.

In case of 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

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In case of eye contact	: material. Do not peel polymer from the skin. Obtain medical treatment for thermal burn. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
If swallowed	: No specific intervention is indicated. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed	: Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media	: Water Foam Dry chemical Carbon dioxide (CO <sub>2</sub> )
Specific hazards during fire-fighting	: 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:
Hazardous combustion products	: (see also section 10) Carbon monoxide carbon dioxide
Further information	: Evacuate personnel and keep upwind of fire.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	: Spilled material is a slipping hazard.
Environmental precautions	: Do not discharge to streams, ponds, lakes or sewers.
Methods and materials for containment and cleaning up	: 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.

**SECTION 7. HANDLING AND STORAGE**

Advice on safe handling	: Open container only in well-ventilated area.
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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.

Conditions for safe storage : Store in a cool, dry place.  
Keep container closed to prevent contamination.  
Keep in an area equipped with sprinklers.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dust (inhalable and respirable fraction)	Not Assigned	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-3
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable particulate matter)	3 mg/m <sup>3</sup>	ACGIH
		TWA (Inhalable particulate matter)	10 mg/m <sup>3</sup>	ACGIH

**Engineering measures** : 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

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protection.  
Consult the OSHA respiratory protection information located at 29CFR 1910.134.

Hand protection

Remarks : 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 splattering 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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : pellets

Colour : natural colour

Odour : none

Odour Threshold : Not applicable

pH : Not applicable

Melting point/range : > 392 °F / > 200 °C

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.

Self-ignition : Not applicable

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : > 1

Solubility(ies)  
Water solubility : insoluble

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Partition coefficient: n-octanol/water	:	Not applicable
Decomposition temperature	:	> 644 °F / 340 °C Thermal decomposition of the resin accelerates above temperature listed. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature.
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable

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**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 > 340 °C 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:  Aldehydes Nitrogen oxides (NOx) traces of hydrogen cyanide Ammonia Carbon monoxide carbon dioxide Cyclopentanone

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified due to lack of data.

**Product:**

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
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**Components:****Potassium bromide:**

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: US EPA Test Guideline OPP 81-1 Target Organs: Central nervous system Assessment: The substance or mixture has no acute oral toxicity Remarks: Gastrointestinal effects
Acute inhalation toxicity	:	Assessment: No data available
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: Information given is based on data obtained from similar substances.

**Skin corrosion/irritation**

Not classified due to lack of data.

**Components:****Potassium bromide:**

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Components:****Potassium bromide:**

Species	:	Rabbit
Result	:	Irritation to eyes, reversing after 7 to 21 days
Assessment	:	Irritating to eyes.
Method	:	OECD Test Guideline 405

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified due to lack of data.

**Respiratory sensitisation**

Not classified due to lack of data.

**Components:****Potassium bromide:**

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	US EPA Test Guideline OPP 81-6
Result	:	Does not cause skin sensitisation.

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Remarks : Information given is based on data obtained from similar substances.

**Germ cell mutagenicity**

Not classified due to lack of data.

**Components:****Potassium bromide:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects., Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Information given is based on data obtained from similar substances.

**Carcinogenicity**

Not classified due to lack of data.

**Components:****Potassium bromide:**

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

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified due to lack of data.

**Components:****Potassium bromide:**

Reproductive toxicity - Assessment : No toxicity to reproduction, Animal testing showed no reproductive toxicity., No effects on or via lactation, Information given is based on data obtained from similar substances. Animal testing showed no developmental toxicity., Information given is based on data obtained from similar substances.

**STOT - single exposure**

May cause drowsiness or dizziness.

**Components:****Potassium bromide:**

Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.



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**STOT - repeated exposure**

May cause damage to organs (hematopoietic system, Thyroid) through prolonged or repeated exposure.

**Components:****Potassium bromide:**

Target Organs	:	hematopoietic system, Thyroid
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Repeated dose toxicity****Components:****Potassium bromide:**

Species	:	Rat
NOAEL	:	23.4 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 d
Target Organs	:	hematopoietic system, Thyroid
Remarks	:	altered blood chemistry altered hematology Organ weight changes Nasal or ocular discharge Information given is based on data obtained from similar substances.

**Aspiration toxicity**

Not classified due to lack of data.

**Components:****Potassium bromide:**

No aspiration toxicity classification

**Further information****Product:**

Remarks	:	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.
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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Potassium bromide:**

Toxicity to fish	:	LC50 (Fish (unspecified species)): > 440 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Information given is based on data obtained from
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similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (algae): > 440 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Information given is based on data obtained from similar substances.

NOEC (algae): > 440 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to fish (Chronic toxicity) : NOEC (Poecilia reticulata (guppy)): 10 mg/l  
Exposure time: 124 d  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 7.5 mg/l  
Exposure time: 21 d  
Remarks: Information given is based on data obtained from similar substances.

**Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****Potassium bromide:**

Bioaccumulation : Remarks: Does not bioaccumulate.  
Information given is based on data obtained from similar substances.

**Mobility in soil**

No data available

**Other adverse effects****Product:**

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

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues	:	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	:	Dispose of in accordance with local regulations.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****49 CFR**

Not regulated as a dangerous good

**Special precautions for user**

Remarks	:	Not classified as dangerous in the meaning of transport regulations.
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**SECTION 15. REGULATORY INFORMATION****SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards**

:	Combustible dust Specific target organ toxicity (single or repeated exposure) Serious eye damage or eye irritation
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**SARA 313**

:	The following components are subject to reporting levels established by SARA Title III, Section 313:
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Copper iodide	7681-65-4	>= 1 - < 5 %
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The following components are subject to reporting levels established by SARA Title III, Section 313:

Copper iodide	7681-65-4	$\geq 1 - < 5 \%$
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**US State Regulations****Pennsylvania Right To Know**

Potassium bromide	7758-02-3
Copper iodide	7681-65-4

**California Prop. 65**

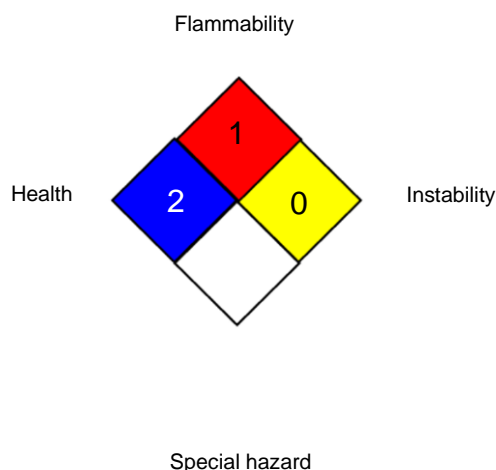
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA list**

In compliance with TSCA-active Inventory requirements for commercial purposes.

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16. OTHER INFORMATION****Further information****NFPA 704:****HMIS® IV:**

HEALTH	*	2
FLAMMABILITY		2
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

**Full text of other abbreviations**

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

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AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 04-19-2024

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.

US / EN

# Celanese ZYTFE7108 NC010 concentrate (CA)

**Components:** Potassium bromide, CAS-No. 7758-02-3



## Warning

**Hazard statements:** If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs (hematopoietic system, Thyroid) through prolonged or repeated exposure.(hematopoietic system, Thyroid)

**Precautionary statements:** Do not breathe dust. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/ face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention if you feel unwell. If eye irritation persists: Get medical advice/ attention. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/ container to an approved waste disposal plant.

**Supplemental information:** None.

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: < 50 % The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 33.9897 %

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

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

**Product Information:** '+1 972-443-4000

**Transport:** DOMESTIC NORTH AMERICA: 800-424-9300 INTERNATIONAL,  
CALL +1 703-527-3887 (collect calls accepted): DOMESTIC NORTH AMERICA:  
800-424-9300 INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)

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