TETD ULTRA



Version 2.0 PRD

Revision Date: 08/19/2017

SDS Number: 150000103800 SDSUS / Z8 / 0001 Date of last issue: 08/17/2017 Date of first issue: 09/06/2016

SECTION 1. IDENTIFICATION

Product name TETD ULTRA

Product code 51296-00, P5129619, N5129610, N5129611, N5129612,

P5129616, P5129613, P5129620

Manufacturer or supplier's details

Company name of supplier Eastman Chemical Company

Address 200 South Wilcox Drive

Kingsport TN 37660-5280

Telephone (423) 229-2000

CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321 Emergency telephone

Recommended use of the chemical and restrictions on use

Recommended use Rubber products

Restrictions on use None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Combustible dust

Acute toxicity (Oral) Category 4

Acute toxicity (Dermal) Category 4

Skin sensitization Category 1

Specific target organ

systemic toxicity - repeated

exposure (Oral)

Category 2 (Liver)

GHS label elements

Hazard pictograms





Signal Word

Hazard Statements May form combustible dust concentrations in air.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

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H373 May cause damage to organs (Liver) through prolonged or

repeated exposure if swallowed.

Precautionary Statements

Prevention:

P260 Do not breathe dust/fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

P273 Avoid release to the environment.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/doctor if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

	CAS-No.	Concentration (% w/w)
Tetraethylthiuram disulfide	97-77-8	> 99

SECTION 4. FIRST AID MEASURES

General advice : Show this material safety data sheet to the doctor in

attendance.

Consult a physician.

If inhaled : Move to fresh air.

Treat symptomatically.

If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with plenty of water for at least 15

minutes.

Take off all contaminated clothing immediately. Call a physician or poison control center immediately.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

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If eye irritation persists: Get medical advice/ attention.

If swallowed : Call a physician or poison control center immediately.

Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

Harmful if swallowed.

May be harmful in contact with skin.

May cause damage to organs through prolonged or repeated

exposure if swallowed. Irregular cardiac activity

Dermatitis Eczema Headache Nausea

Shortness of breath

May produce an allergic reaction. Health injuries may be delayed.

More severe effects if alcohol is consumed.

Notes to physician : General advice for dithiocarbamates

Biomonitoring possible at chronical exposure: determination of

TTCA in the urine at the end of the workday/week.

Bloodtesting for delayed effects: livertests, kidney function,

thyroid function

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)

Dry chemical Water spray

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread

fire.

Do NOT use water jet.

Specific hazards during fire

fighting

Thermal decomposition can lead to release of irritating gases

and vapors.

Risk of dust explosion.

Hazardous combustion prod-

ucts

Nitrogen oxides (NOx)

Sulfur oxides Carbon oxides

Further information : Do not allow run-off from fire fighting to enter drains or water

courses.

Special protective equipment

for fire-fighters

Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protec- : tive equipment and emer-

gency procedures

Wear appropriate personal protective equipment.

Local authorities should be advised if significant spillages

cannot be contained.

Environmental precautions

Avoid release to the environment.

Methods and materials for containment and cleaning up Sweep up or vacuum up spillage and collect in suitable

container for disposal.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Keep product and empty container away from heat and

sources of ignition.

Advice on safe handling Avoid breathing dust.

Do not get on skin or clothing.

Do not get in eyes. Do not swallow.

Ensure adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage

Keep tightly closed.

Keep in a dry, cool and well-ventilated place.

Keep away from direct sunlight. Use only explosion-proof equipment.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Tetraethylthiuram disulfide	97-77-8	TWA	2 mg/m3	ACGIH
		TWA	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA P0

Engineering measures

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Respiratory protection Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates

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that exposures are within recommended exposure guidelines.

Effective dust mask

Hand protection

Remarks : Rubber gloves Neoprene gloves The data about break

through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

Eye protection : Safety glasses

Face-shield

Always wear eye protection when the potential for inadvertent

eye contact with the product cannot be excluded.

Skin and body protection : Complete suit protecting against chemicals

Protective measures : Remove respiratory and skin/eye protection only after vapors

have been cleared from the area.

Ensure that eye flushing systems and safety showers are

located close to the working place.

Use personal protective equipment as required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Color : off-white

Odor : amine-like

Odor Threshold : not determined

pH : not determined

Melting point/range : > 64 °C

: not determined

Flash point : Not applicable

Evaporation rate : not determined

Self-ignition : 240 - 280 °C

Upper explosion limit : not determined

Lower explosion limit : not determined

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Vapor pressure

: very faint

Relative vapor density

Not applicable

Relative density

: No data available

Bulk density

: 1,310 kg/m3 (20 °C)

Solubility(ies)

Water solubility

insoluble

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature

: not determined

Decomposition temperature

not determined

Viscosity

Viscosity, dynamic

not determined

Viscosity, kinematic

not determined

Explosive properties

: No data available

Oxidizing properties

: Not classified

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

Hazardous decomposition products formed under fire

conditions.

Dust can form an explosive mixture in air.

Conditions to avoid : Avoid dust formation.

Heat.

Incompatible materials : Strong oxidizing agents

Strong acids

Hazardous decomposition

products

: Carbon dioxide (CO2) Nitrogen oxides (NOx)

Sulfur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or in contact with skin.

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Product:

Acute oral toxicity : LD50 Oral (Rat): 1,300 - 1,400 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:
Result: slight

Serious eye damage/eye irritation

Causes serious eye irritation.

Product: Result: slight

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Result: sensitizing

Germ cell mutagenicity

Not classified based on available information.

Product:

Germ cell mutagenicity -

Did not show mutagenic effects in animal experiments.

Assessment

Carcinogenicity

Not classified based on available information.

Product:

Remarks: This information is not available.

Carcinogenicity - Assess-

Did not show carcinogenic effects in animal experiments.

ment

IARC No ingredient 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 ingredient of this product present at levels greater than or

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equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP No ingredient 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 based on available information.

Product:

Effects on fertility : Remarks: No data available

Reproductive toxicity - As-

sessment

No toxicity to reproduction

STOT-single exposure

Not classified based on available information.

Product:

Remarks: No data available

STOT-repeated exposure

May cause damage to organs (Liver) through prolonged or repeated exposure if swallowed.

Product:

Remarks: No data available

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Information on likely routes of exposure

Product:

Inhalation : Remarks: None known.

Skin contact : Remarks: May cause an allergic skin reaction.

Eye contact : Remarks: None known.

Ingestion : Remarks: Harmful if swallowed.

Further information

Product:

Remarks: Health injuries may be delayed.

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Remarks: None known.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 0.19 - 0.32 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.12 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella pyrenoidosa): 1.8 mg/l

Exposure time: 96 h

Toxicity to microorganisms : IC50 (Bacteria): 1.21 mg/l

Exposure time: 15 min

Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil
No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

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SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Tetraethylthiuram disulfide)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 956

aircraft)

Packing instruction (passen-

ng instruction (passen- : 9

ger aircraft)

956

IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Tetraethylthiuram disulfide)

Class : 9
Packing group : III
Labels : 9

EmS Code : F-A, S-F Marine pollutant : yes

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 3077

Proper shipping name : Environmentally hazardous substances, solid, n.o.s., Envi-

ronmentally hazardous substance, solid, n.o.s.

(Tetraethylthiuram disulfide)

Class : 9 Packing group : III

Labels : Class 9 - Miscellaneous Dangerous Goods

ERG Code : 171 Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Ingredients	CAS-No.	Component TPQ (lbs)

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard Chronic Health Hazard

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SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

thiram 137-26-8 81.7 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

thiram 137-26-8

Pennsylvania Right To Know

thiram 137-26-8 sodium lignosulfonate 8061-51-6 ethylene glycol 107-21-1

New Jersey Right To Know

thiram 137-26-8 sodium lignosulfonate 8061-51-6 Water 7732-18-5

The ingredients of this product are reported in the following inventories:

CH INV : The mixture contains substances listed on the Swiss Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS: On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

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TSCA : On TSCA Inventory

TSCA list

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

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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; 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

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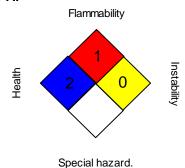


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Further information

NFPA:



HMIS® IV:



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.

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The information provided in this Material 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 / Z8