

#### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 23/11/2021

CDLM-9206-MT-S

Revision date: 24/11/2021

Supersedes: 23/11/2021

Version: 1.1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixtures

Product name : TRANS-DCCA (95% CHEMICAL PURITY) (1, CARBOXYL-13C2, 99%;1-D, 97%) 100 UG/ML

IN MTBE

Product code : CDLM-9206-MT-S

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <a href="mailto:cilsales@isotope.com">cilsales@isotope.com</a> www.isotope.com

#### **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225 Skin Irrit. 2 H315

Full text of hazard classes and H-statements : see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xi; R38

Full text of R-phrases: see section 16

#### **GHS-US** classification

Flam. Liq. 2 H225 Skin Irrit. 2 H315

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

central nervous system. kidneys.

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#### Label elements

#### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





Signal word (CLP) Danger

Hazard statements (CLP) H225 - Highly flammable liquid and vapor

H315 - Causes skin irritation

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Precautionary statements (CLP)

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical equipment P264 - Wash hands thoroughly after handling P280 - Wear protective clothing, protective gloves. P302+P352 - IF ON SKIN: Wash with plenty of water.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

#### **GHS-US** labeling

Hazard pictograms (GHS-US)





GHS02

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H315 - Causes skin irritation

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical equipment

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P264 - Wash Both hands thoroughly after handling. P280 - Wear protective clothing, protective gloves. P302+P352 - If on skin: Wash with plenty of water

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing and wash before reuse.

P370+P378 - In case of fire: Use Hazard pictograms (CLP) to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of contents/container to Comply with applicable regulations

#### Other hazards

No additional information available

#### SECTION 3: Composition/Information on ingredients

#### **Substances**

Not applicable

#### **Mixtures**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
METHYL TERT-BUTYL ETHER UNLABELED	(CAS-No.) 1634-04-4 (EC-No.) 216-653-1 (EC Index-No.) 603-181-00-X (REACH-no) 01-2119452786-27	99.987	F; R11 Xi; R38

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
TRANS-DCCA (1,CARBOXYL-13C2,99%;1-D,97%)95% CHEMICAL PURITY	(CAS-No.) 59042-50-1 (Unlabeled)	0.013	Xi; R36/37/38
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
METHYL TERT-BUTYL ETHER UNLABELED	(CAS-No.) 1634-04-4 (EC-No.) 216-653-1 (EC Index-No.) 603-181-00-X (REACH-no) 01-2119452786-27	99.987	Flam. Liq. 2, H225 Skin Irrit. 2, H315
TRANS-DCCA (1,CARBOXYL-13C2,99%;1-D,97%)95% CHEMICAL PURITY	(CAS-No.) 59042-50-1 (Unlabeled)	0.013	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Name	Product identifier	%	GHS-US classification
METHYL TERT-BUTYL ETHER UNLABELED	(CAS-No.) 1634-04-4	99.987	Flam.Liq.2,H225 Skin Irrit. 2, H315
TRANS-DCCA (1,CARBOXYL-13C2, 99%;1-D, 97%)95% CHEMICAL PURITY	(CAS-No.) 59042-50-1 (Unlabeled)	0.013	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of R- and H- phrases: see section 16

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. If not breathing, give

artificial respiration. Get medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get

medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

#### 5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing

apparatus.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Use water spray to cool exposed surfaces.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking.

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#### 6.1.1. For non-emergency personnel

Emergency procedures

: Use personal protective equipment as required. Avoid breathing vapors, mist, gas. Provide adequate ventilation to minimize dust and/or vapor concentrations. Avoid dust formation. Evacuate area. Remove all sources of ignition. Special attention should be given to low areas/pits where flammable vapors can accumulate.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment

Collect spillage. Clean up any spills as soon as possible, using an absorbent material to collect it. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling

: No open flames. No smoking. Use only non-sparking tools.

Hygiene measures

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a dry and well-ventilated place.

Storage conditions : Store at room temperature away from light and moisture.

Incompatible materials : Heat sources.

#### 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

TRANS-DCCA (95% CHEMICAL PURITY) (1, CARBOXYL-13C2, 99%;1-D, 97%) 100 UG/ML IN MTBE		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Upper Respiratory Tract irritation. Kidney damage. Confirmed animal carcinogen with unknown relevance to humans.
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	50.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV) Remarks: Upper Respiratory Tract irritation. Kidney damage. Confirmed animal carcinogen with unknown relevance to humans.
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	144 mg/m³ Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).
USA OSHA	OSHA PEL (Ceiling) (ppm)	40 ppm Basis: California permissible exposure limits for chemical contaminants. (Title 8, Article 107).

#### 8.2. Exposure controls

Appropriate engineering controls

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Personal protective equipment

: Safety glasses. Gloves. Protective clothing. Self-contained breathing apparatus.







Materials for protective clothing

: Wear suitable protective clothing and gloves.

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Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.

Skin and body protection Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls Avoid release to the environment.

#### **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture. Physical state : Liquid Appearance

Molecular mass 88.15 g/mol (Labeled)

Colorless Color

Odor No data available No data available Odor threshold рН No data available : No data available Relative evaporation rate (butyl acetate=1) : -108.6 °C (-163.5 °F) Melting point : No data available Freezing point

**Boiling** point 55 - 56 °C (131 - 133 °F) - lit. : -33 °C (- 27.4 °F) - closed cup Flash point

374 °C (705.2 °F) Auto-ignition temperature Decomposition temperature No data available

Flammability (solid, gas) Highly flammable liquid and vapor

1018.7 hPa (764.1 mmHg) at 55°C (131°F), 279.2 hPa (209.4 mmHg) at 20 °C (68°F) Vapor pressure

Relative vapor density at 20 °C : No data available No data available Relative density

Specific gravity / density 0.74 g/ml at 25 °C (77 °F)

Water: 42 g/l at 20 °C (68 °F) - OECD Test Guideline 105 Solubility

Log Pow

No data available Log Kow

Viscosity, kinematic 0.464 mm<sup>2</sup>/s at 20 °C (68 °F) - 0.409 mm<sup>2</sup>/s at 40 °C (104 °F)

No data available Viscosity, dynamic **Explosive properties** : No data available No data available Oxidizing properties 1.6 - 15.1 % (V) **Explosion limits** 

#### Other information

No additional information available

#### SECTION 10: Stability and reactivity

#### Reactivity

No additional information available

#### Chemical stability

See storage and expiration date on CoA.

#### Possibility of hazardous reactions

No additional information available

#### Conditions to avoid

Open flame. Direct sunlight.

#### Incompatible materials

Oxidizing agent. Strong acids.

#### Hazardous decomposition products

May release flammable gases.

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#### **SECTION 11: Toxicological information**

#### Information on toxicological effects

Acute toxicity : Not classified

TRANS-DCCA (95% CHEMICAL PURITY) (1, 0	CARBOXYL-13C2, 99%;1-D, 97%) 100 UG/ML IN MTBE
LD50 oral rat	4000 mg/kg
LC50 inhalation rat (ppm)	23576 ppm/4h
METUVI TEDT DITVI ETUED IINI ADELED (ACCA OA A)	

#### METHYL TERT-BUTYL ETHER UNLABELED ( LD50 oral rat 4000 mg/kg LC50 inhalation rat (ppm) 23576 ppm/4h

Skin corrosion/irritation Causes skin irritation.

Skin - Rabbit - Causes skin irritation

Serious eye damage/irritation : Eyes - Rabbit - No eye irritation

Respiratory or skin sensitization : Will not occur Germ cell mutagenicity Not classified Carcinogenicity Not classified : Not classified Reproductive toxicity Specific target organ toxicity - single exposure : Not classified Specific target organ toxicity - repeated : Not classified

exposure

Not classified

Potential Adverse human health effects and

symptoms

Aspiration hazard

: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product, central nervous system.

Dizziness. Nausea. Vomiting. IF INHALED: Risk of pneumonia.

IARC group : 2B

Symptoms/effects after inhalation May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact Causes skin irritation. Symptoms/effects after eye contact May cause eye irritation. Symptoms/effects after ingestion May be harmful if swallowed.

#### **SECTION 12: Ecological information**

#### **Toxicity**

TRANS-DCCA (95% CHEMICAL PURITY) (1, CARBOXYL-13C2, 99%;1-D, 97%) 100 UG/ML IN MTBE	
LC50 fish 1	672 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	472 mg/l Daphnia magna (Water flea) - 48 h
EC50 other aquatic organisms 1	491 mg/l Pseudokirchneriella subcapitata (green algae) - 96 h
LC50 fish 2	> 1000 mg/l other fish - 96 h

METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	
LC50 fish 1	672 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	472 mg/l Daphnia magna (Water flea) - 48 h
EC50 other aquatic organisms 1	491 mg/l Pseudokirchneriella subcapitata (green algae) - 96 h
LC50 fish 2	> 1000 mg/l other fish - 96 h

#### Persistence and degradability

TRANS-DCCA (95% CHEMICAL PURITY) (1, CARBOXYL-13C2, 99%;1-D, 97%) 100 UG/ML IN MTBE	
Persistence and degradability	Not readily biodegradable. (OECD 301D method).
Biodegradation	0 %
METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)	
METHYL TERT-BUTYL ETHER UNLABELED (	1634-04-4)
METHYL TERT-BUTYL ETHER UNLABELED (*Persistence and degradability	Not readily biodegradable. (OECD 301D method).

#### Bioaccumulative potential 12.3.

TRANS-DCCA (95% CHEMICAL PURITY) (1, C	ARBOXYL-13C2, 99%;1-D, 97%) 100 UG/ML IN MTBE
Log Pow	1.06

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METHYL	TERT-BUTYL	ETHER	UNLABELED	(1634-04-4)

Log Pow 1.06

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional legislation (waste) : Waste materials should be disposed of under conditions which meet Federal, State, and local

environmental control regulations.

Product/Packaging disposal recommendations : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Dispose of as unused product.

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No.(DOT) : 2398 DOT NA no. UN2398

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Methyl tert-butyl ether

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110

kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97/1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

: 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242
Marine pollutant : No

DOT Packaging Exceptions (49 CFR 173.xxx)

#### 14.3. Additional information

Emergency Response Guide (ERG) Number : 127

Other information : No supplementary information available.

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

Overland transport

Packing group (ADR) : II

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 33 Classification code (ADR) : F1

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Hazard labels (ADR) : 3 - Flammable liquids

3

Orange plates

33 2398

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 11
EAC : •3YE
Excepted quantities (ADR) : E2

Transport by sea

DOT Vessel Stowage Location : E - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length, but is prohibited from carriage on passenger vessels in which the limiting number of passengers is exceeded.

MFAG-No : 127

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

Special transport precautions : Not classified as dangerous in the meaning of transport regulations.

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

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

TRANS-DCCA (95% CHEMICAL PURITY) (1, CARBOXYL-13C2, 99%;1-D, 97%) 100 UG/ML IN MTBE	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302.	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

### METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4) Subject to reporting requirements of United States SARA Se

Subject to reporting requirements of United States SARA Section 313	
SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302.	
Quantity (TPQ)	
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard
	Delayed (chronic) health hazard

TRANS-DCCA (1,CARBOXYL-13C2, 99%;1-D, 97%)95% CHEMICAL PURITY (59042-50-1 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

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#### 15.2. International regulations

#### CANADA

#### TRANS-DCCA (95% CHEMICAL PURITY) (1, CARBOXYL-13C2, 99%;1-D, 97%) 100 UG/ML IN MTBE

Listed on the Canadian DSL (Domestic Substances List)

#### METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

TRANS-DCCA (95% CHEMICAL PURITY) (1, CARBOXYL-13C2, 99%;1-D, 97%) 100 UG/ML IN MTBE()	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List

METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	(NSRL)
Carollogono List	Developmental Toxions	Female	Male	
No	No	No	No	

TRANS-DCCA (1,CARBOXYL-13C2, 99%;1-D, 97%)95% CHEMICAL PURITY (59042-50-1 (Unlabeled))				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

#### METHYL TERT-BUTYL ETHER UNLABELED (1634-04-4)

#### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### TRANS-DCCA (1,CARBOXYL-13C2, 99%;1-D, 97%)95% CHEMICAL PURITY (59042-50-1 (Unlabeled))

#### State or local regulations

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### **SECTION 16: Other information**

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

#### Full text of R-, H- and EUH-phrases:

, , ,	
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor

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H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
R11	Highly flammable
R36/37/38	Irritating to eyes, respiratory system and skin
R38	Irritating to skin
F	Highly flammable
Xi	Irritant

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

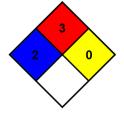
temporary incapacitation or residual injury.

NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient

temperature conditions.

: 0 - Material that in themselves are normally stable, even

under fire conditions.



#### **Hazard Rating**

NFPA reactivity

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard
Physical : 0 Minimal Hazard

#### CIL Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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