1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the product

Identification of the mixture: Mixland+ TDEC 75% GA

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

Use of the Substance/Mixture : Curing chemical

1.3. Details of the supplier of the safety data sheet

Supplier
MLPC International
209, avenue Charles Despiau
F-40370 RION-LES-LANDES
Tel. + 33 (0) 5 58 57 02 00
http://www.mlpc-intl.com

E-mail address
fds@mlpc-intl.com

1.4. Emergency telephone number

+44 (0) 1235 239 670 (Carechem24 – MLPC 29003) **Europe**
001866 928 0789 (Carechem24 – MLPC 29003) **Americas**
+65 3158 1074 (Carechem24 – MLPC 29003) **Asia-pacific region** (excluding China)
+86 400 6267911 **China mainland**

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008):
This substance is not classified as dangerous according to Regulation (EC) No 1272/2008.

Classification according to EU Directives 1999/45/EC :

This mixture is not classified as dangerous according to Directive 1999/45/EC.

2.2. Label elements

Label elements (REGULATION (EC) No 1272/2008):

This substance is not classified as dangerous according to Regulation (EC) No 1272/2008., This substance does not require a label.

2.3. Other hazards : None.

Other:
Results of PBT and vPvB assessment : Based on the available information, it is not possible to conclude on the hasard potential of this mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical nature of the mixture[1]:
Mixture based on: Polymer and

Hazardous components (according to Regulation (EC) No. 1907/2006) :

Chemical Name[1] & REACH Registration Number[2]	EC-No.	CAS-No.	Concentration	Classification Directive 67/548/EEC	Classification REGULATION (EC) No 1272/2008
Tetrakis(diethyldithiocarbamato-S,S')tellurium	244-121-9	20941-65-5	< 75 %	WEL substance	
Distillates (petroleum), hydrotreated light paraffinic	265-158-7	64742-55-8	> 13 %	Nota L: DMSO <3% Carc.Cat.2; R45	AH 1; H304 Nota L: DMSO <3%

[1]: See chapter 14 for Proper Shipping Name
[2] :See the text of the regulation for applicable exceptions or provisions : The transition time according to REACH Regulation, Article 23, is still not expired.
For the full text of the R, H, EUH-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1. & 4.2. Description of necessary first-aid measures & Most important symptoms/effects, acute and delayed:

General advice:
Take off immediately all contaminated clothing.

Inhalation:
Move to fresh air. Consult a physician.

Skin contact:
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Eye contact:
Wash well-open eyes immediately, abundantly and thoroughly with water. Consult an ophthalmologist.

Ingestion:
Call a physician immediately. Do not induce vomiting without medical advice. Rinse mouth.

Protection of first-aiders:
If entering a saturated atmosphere, wear a self contained breathing apparatus.

4.3.Indication of immediate medical attention and special treatment needed, if necessary : No data available.

5. FIREFIGHTING MEASURES

5.1.Extinguishing media

Suitable extinguishing media: Water spray, Foam, Dry powder

Unsuitable extinguishing media: All other extinguishants

5.2. Special hazards arising from the substance or mixture:
Thermal decomposition gives :, Nitrogen oxides (NOx), Sulphur oxides, Carbon oxides

5.3. Advice for firefighters:

Specific methods:
Suppress gases, fumes and/or dust with water spray jet. Remove all sources of ignition.

Special protective actions for fire-fighters:
Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:
Avoid contact with skin and eyes and inhalation of dust.

6.2. Environmental precautions:
Do not let product enter drains. Do not contaminate surface water.

6.3. Methods and materials for containment and cleaning up:

Recovery:
Shovel or sweep up. Recover the product and place in a dry labelled container.

Elimination:

Dispose of as hazardous waste in compliance with local and national regulations.

6.4. Reference to other sections: None.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling:

Technical measures/Precautions:
Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths. In the presence of an ignition source: Dust may form explosive mixture in air.

Safe handling advice:
In case of dust formation, wear a dust mask. Avoid static electricity build up with connection to earth.

Hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes.
Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities:

Store protected from moisture and heat. Protect from light. Keep away from direct sunlight.

Incompatible products:
Strong acids, Oxidizing agents

Packaging material:
Recommended: Cardboard lined with polyethylene liner, Paper bags lined with polyethylene

7.3. Specific end use(s): None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Exposure Limit Values Not relevant

Derived No Effect Level (DNEL): No data available.

Predicted No Effect Concentration: No data available.

8.2. Exposure controls:

General protective measures: Ensure sufficient air exchange and/or exhaust in work areas

Personal protective equipment:

Respiratory protection:	Effective dust mask.
Hand protection:	Impervious gloves
Eye/face protection:	Tightly fitting safety goggles
Skin and body protection:	Protective suit

Environmental exposure controls: See chapter 6

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	
Physical state (20°C):	solid
Form:	pellets
Colour:	orange
Odour:	None.
Olfactory threshold:	No data available.
pH:	No data available.
	>= 110 °C
Boiling point/boiling range:	No data available.
Flash point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.

Density:	1,26 g/cm3 , at 20 °C Molten form
Water solubility:	No data available.
Partition coefficient: n-octanol/water:	TETRAKIS(DIETHYLDITHIOCARBAMATO-S,S')TELLURIUM : log Kow : = 4,39, Potential bioaccumulation (calculated)
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2. Other data:

Molecular weight: 721 g/mol

10. STABILITY AND REACTIVITY

10.1. & 10.2. Reactivity & Chemical stability:
The product is stable under normal handling and storage conditions.

10.3. Possibility of hazardous reactions: No data available.

10.4. Conditions to avoid:
Store protected from moisture and heat. Protect from light. Keep away from direct sunlight.

10.5. Incompatible materials to avoid:
Strong acids and strong bases

10.6. Hazardous decomposition products:
Nitrogen oxides (NOx), Carbon dioxide (CO2), Sulphur oxides

11. TOXICOLOGICAL INFORMATION

All available data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

11.1. Information on toxicological effects:

Acute toxicity:

Inhalation: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

TETRAKIS(DIETHYLDITHIOCARBAMATO-S,S')TELLURIUM :
• In animals : No mortality/4 h/Rat: 0,51 mg/l (Dusts)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
• In animals : No mortality/4 h/Rat: 5,53 mg/l (Method: OECD Test Guideline 403) (Aerosol)

Ingestion: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

TETRAKIS(DIETHYLDITHIOCARBAMATO-S,S')TELLURIUM :

• In animals : LD50/Rat: 5.000 mg/kg

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
• In animals : No mortality/Rat: 5.000 mg/kg (Method: OECD Test Guideline 401)

Dermal: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

TETRAKIS(DIETHYLDITHIOCARBAMATO-S,S')TELLURIUM :

• In animals : LD50/24 h/Rabbit: > 2.000 mg/kg

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
• In animals : No mortality/Rabbit: 5.000 mg/kg (Method: OECD Test Guideline 402)

Local effects (Corrosion / Irritation / Serious eye damage):

Skin contact: **According to EU classification criteria, this product/mixture is not classified as irritant.**

TETRAKIS(DIETHYLDITHIOCARBAMATO-S,S')TELLURIUM :

• In animals : (After semi-occlusive contact, Rabbit, Exposure time: 24 h)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
• In animals : Slightly irritating to skin. (Rabbit, Exposure time: 24 h)

Eye contact: **According to EU classification criteria, this product/mixture is not classified as irritant.**

TETRAKIS(DIETHYLDITHIOCARBAMATO-S,S')TELLURIUM :

• In animals : (Draize Test, Rabbit)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
• In animals : No eye irritation (OECD Test Guideline 405, Rabbit)

Respiratory or skin sensitisation:

Inhalation: No data available.

Skin contact: **According to EU classification criteria, this product/mixture is not classified as skin sensitizer.**

TETRAKIS(DIETHYLDITHIOCARBAMATO-S,S')TELLURIUM :

• In animals : No skin allergy was observed (Method : Buehler method, Guinea pig)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
• In animals : Not a skin sensitizer (Method : OECD Test Guideline 406 Guinea pig maximization test)

CMR effects :

Mutagenicity: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

In vitro

TETRAKIS(DIETHYLDITHIOCARBAMATO-S,S')TELLURIUM :
Ames test in vitro: Inactive
In vitro gene mutations test on mammalian cells: Active
Chromosome aberration test in vitro: Active

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
Ames test in vitro: Inactive (Method: OECD Test Guideline 471)
In vitro test for chromosomal abnormalities on CHO cells: Inactive (Method: OECD Test Guideline 473)
In vitro gene mutations test on mammalian cells: Inactive (Method: OECD Test Guideline 476)

In vivo

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
Micronucleus test in vivo mouse: Inactive (Method: OECD Test Guideline 474)

Carcinogenicity: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

TETRAKIS(DIETHYLDITHIOCARBAMATO-S,S')TELLURIUM :
• In animals : Absence of carcinogenic effects (rat, mouse, 2 years, By diet)
Absence of carcinogenic effects (Mouse, Chronic, dermal route)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
• In animals : Absence of carcinogenic effects (Method: OECD Test Guideline 451, mice, Chronic, dermal route)

Reproductive toxicity:

Fertility: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
• In animals : Reproduction Test: No toxicity to reproduction
NOAEL (Parental toxicity): 1.000 mg/kg bw/day
NOAEL (Fertility): 1.000 mg/kg bw/day
(Method: OECD Test Guideline 421, Rat, By oral route)

Foetal development: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

• In animals : Absence of toxic effects for foetal development.
NOAEL (Developmental Toxicity): 2.000 mg/kg bw/day
NOAEL (Maternal Toxicity): < 125 mg/kg bw/day
(Method: OECD Test Guideline 414, Rat, dermal route)

Specific target organ toxicity :
Single exposure :

Inhalation: **Dust inhalation: Possible irritation of respiratory system**

Repeated exposure: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
• In animals : By inhalation: No effect is reported.
NOAEL= > 1 mg/l (Rat, 4 Weeks) (Aerosol)
dermal route: No effect is reported.
NOAEL= > 2.000 mg/kg (Method: OECD Test Guideline 411, Rat, 3 months)
By oral route: (Results obtained on a similar product).
Target organs: Reproductive organs, Stomach, Liver, Thymus, NOAEL= < 125 mg/kg (Method: OECD Test Guideline 408, Rat, 3 months)

Aspiration hazard: Not applicable
Further information: Use of alcoholic beverages when exposed to the product may result in adverse health effects (Antabuse effect)

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment: All available data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

12.1. Toxicity :

Fish: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
LL50, 96 h (Pimephales promelas (fathead minnow)) : > 100 mg/l (Method: OECD Test Guideline 203)

Aquatic invertebrates: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
LL50, 48 h (Daphnia magna (Water flea)) : > 10.000 mg/l (Method: OECD Test Guideline 202, pH: 7,7, Immobilization)

Aquatic plants: **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
LL50, 72 h (Pseudokirchneriella subcapitata (microalgae)) : > 100 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

Microorganisms:

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
NOEC, 4 d (Photobacterium phosphoreum) : > 1,93 mg/l (Method: DIN 38412)

Aquatic toxicity / Long term toxicity:

Aquatic invertebrates:

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
NOEC, 21 d (Daphnia magna (Water flea)) : 10 mg/l (Method: OECD Test Guideline 211, Growth inhibition/Reproduction inhibition)

Aquatic plants:

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
NOEC r, 72 h (Pseudokirchneriella subcapitata) : 100 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

12.2. Persistence and degradability :

Biodegradation (In water): **Based on the available information, it is not possible to conclude on the hasard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

Not readily biodegradable.
4 % after 28 d (Method: OECD Test Guideline 301 B)

12.3. Bioaccumulative potential :

Bioaccumulation: **From its composition, it must be considered as: , Potentially bioaccumulable.**

TETRAKIS(DIETHYLDITHIOCARBAMATO-S,S')TELLURIUM :
Partition coefficient: n-octanol/water: log Kow : = 4,39, Potential bioaccumulation (Method: calculated)

12.4. Mobility in soil - Distribution among environmental compartments: No data available.

12.5. Results of PBT and vPvB assessment :

Based on the available information, it is not possible to conclude on the hasard potential of this mixture.

12.6. Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment:

Disposal of product: Destroy the product by incineration (in accordance with local and national regulations).

Disposal of packaging: Destroy packaging by incineration at an approved waste disposal site (in accordance with local and national regulations).

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Safety data sheets: according to Regulation (EC) No. 1907/2006

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

15.2. Chemical Safety Assessment: None.

INVENTORIES:

EINECS:	Conforms to
TSCA:	Conforms to
AICS:	Conforms to
DSL:	All components of this product are on the Canadian DSL.
ENCS (JP):	Conforms to
KECI (KR):	Conforms to

16. OTHER INFORMATION

Full text of R, H, EUH-phrases referred to under sections 2 and 3

R45	May cause cancer.
H304	May be fatal if swallowed and enters airways.

Thesaurus:
NOAEL : No Observed Adverse Effect Level (NOAEL)
LOAEL : Lowest Observed Adverse Effect Level (LOAEL)
bw : Body weight
food : oral feed
dw : Dry weight
vPvB : very Persistent and very Bioaccumulative
PBT : Persistent, Bioaccumulative and Toxic

This information applies to the PRODUCT AS SUCH and conforming to specifications of ARKEMA. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).