

Product: **MIXLAND+® TMTD 80 GA**

Page: 1 / 11

SDS No.: 100074-100 (Version 3.0)

Date 27.08.2019 (Cancel and replace : 20.02.2018)

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

1.1. Identification of the product

Identification of the mixture: MIXLAND+® TMTD 80 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-DES-LANDES, FRANCE Telephone: + 33 (0) 5 58 57 02 00 E-mail address: http://www.mlpc-intl.com fds@mlpc-intl.com
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1.4. Emergency telephone number

+1-703-741-5970 CHEMTREC international emergency phone number (ARKEMA CCN830055)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008):

Oral: Acute toxicity, 4, H302
 Inhalation: Acute toxicity, 4, H332
 Skin irritation, 2, H315
 Eye irritation, 2, H319
 Skin sensitisation, 1, H317
 Specific target organ toxicity - repeated exposure, 2, Liver, H373
 Acute aquatic toxicity, 1, H400
 Chronic aquatic toxicity, 1, H410

Additional information:

For the full text of the H, EUH-phrases mentioned in this Section, see Section 16.

2.2. Label elements

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

Hazardous components which must be listed on the label:

tetramethylthiuram disulphide

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H302 : Harmful if swallowed.
 H332 : Harmful if inhaled.
 H315 : Causes skin irritation.
 H319 : Causes serious eye irritation.
 H317 : May cause an allergic skin reaction.
 H373 : May cause damage to organs through prolonged or repeated exposure.
 H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

P260 : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P273 : Avoid release to the environment.

P280 : Wear protective gloves or eye protection or face protection.

Response:

P314 : Get medical advice/ attention if you feel unwell.

P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.

P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 : If eye irritation persists: Get medical advice/ attention.

Storage:

P403 + P233 : Store in a well-ventilated place. Keep container tightly closed.

Disposal:

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

Additional information: Rubber accelerator

2.3. Other hazards : None.**Other:**

Results of PBT and vPvB assessment : According to REACH regulation, annex XIII, this mixture contains no substance meeting PBT and vPvB criteria.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Chemical nature of the mixture¹:**

Mixture based on: Polymer and

Hazardous components (accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)) :

Chemical name ¹ & REACH Registration Number ²	EC-No.	CAS-No.	Concentration	Classification REGULATION (EC) No 1272/2008
Thiram (01-2119492301-45) (N° ANNEX: 006-005-00-4)	205-286-2	137-26-8	Approximately 80 %	Acute Tox. 4 (Oral); H302 Acute Tox. 4 (Inhalation); H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Acute = 10 M-Factor Chronic = 10
Distillates (petroleum), hydrotreated light paraffinic (01-2119487077-29) (N° ANNEX: 649-468-00-3)	265-158-7	64742-55-8	11 - 13 %	Asp. Tox. 1; H304 Nota L: DMSO <3%

¹: See chapter 14 for Proper Shipping Name²: See the text of the regulation for applicable exceptions or provisions -**4. FIRST AID MEASURES****4.1. Description of necessary first-aid measures:****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:

Product:
SDS No.: 100074-100 (Version 3.0)

MIXLAND+® TMTD 80 GA

Page: 3 / 11
Date 27.08.2019 (Cancel and replace : 20.02.2018)

If entering a saturated atmosphere, wear a self contained breathing apparatus.

4.2. Most important symptoms/effects, acute and delayed: No data available.

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.
Avoid dust formation.

Safe handling advice:

In case of dust formation, wear a dust mask. Avoid static electricity build up with connection to earth. Avoid contact with the skin and the eyes.

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****Thiram**

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
ACGIH (US)	02 2012	TWA	-	0,05	Inhalable fraction and vapor.

Distillates (petroleum), hydrotreated light paraffinic

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
ACGIH (US)	02 2012		-	-	Exposure by all routes should be carefully controlled to levels as low as possible.
ACGIH (US)	02 2012		-	-	Included in the regulation but with no data values. See regulation for further details.
ACGIH (US)	02 2012	TWA	-	5	Inhalable fraction.

Thiram

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
ACGIH (US)	02 2012	TWA	-	0,05	Inhalable fraction and vapor.

Distillates (petroleum), hydrotreated light paraffinic

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
ACGIH (US)	02 2012		-	-	Exposure by all routes should be carefully controlled to levels as low as possible.
ACGIH (US)	02 2012		-	-	Included in the regulation but with no data values. See regulation for further details.
ACGIH (US)	02 2012	TWA	-	5	Inhalable fraction.

Derived No Effect Level (DNEL): THIRAM :

End Use	Inhalation	Ingestion	Skin contact
Workers	0,118 mg/m3 (LT, SE) 0,564 mg/m3 (ST, SE)		1,6 mg/kg (LT, SE) 10 mg/kg (ST, SE)

LE : Local effects, SE : Systemic effects, LT : Long term, ST : Short term

Predicted No Effect Concentration: THIRAM :

Compartment:	Value:
Fresh water	0,00046 mg/l
Water (Intermittent release)	0,00046 mg/l
Marine water	0,000046 mg/l
Sewage treatment plant	0,0311 mg/l
Fresh water sediment	0,047 mg/kg dw
Marine sediment	0,0047 mg/kg dw

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 (20 °C)
Form:	roll, or, pellets
Colour:	White - yellow (Slightly)
Odour:	slight
Olfactory threshold:	No data available.
pH:	No data available.
Melting point :	Average 145 °C (OECD Test Guideline 102)
Boiling point/boiling range:	No data available.
Flash point:	150 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	
Flammability:	Non flammable product (Flammability (solids))
Vapour pressure:	0,00002 Pa , at Active ingredient 25 °C (A4 Method (D. 92/69/ECC))
Vapour density:	No data available.
Density:	1,36 g/cm ³ , at 20 °C Pure substance (A3 method)
Water solubility:	No data available.
Partition coefficient: n-octanol/water:	THIRAM : log Kow : 1,8 - 2,1 (OECD Test Guideline 117)
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:

pKA:	Active ingredient 8,19 at 25 °C
Molecular weight:	Active ingredient 240,4 g/mol

10. STABILITY AND REACTIVITY

10.1. Reactivity: No data available.

10.2. 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 (NO_x), Carbon dioxide (CO₂), Sulphur oxides
Burning produces irritant fumes.

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: According to its composition, can be considered as Harmful if inhaled.

THIRAM :

• In animals : LC50/4 h/Rat: 4,42 mg/l (Aerosol)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

- In animals : No mortality/4 h/Rat: 5,53 mg/l (Method: OECD Test Guideline 403) (Aerosol)
- Ingestion:** **According to its composition, can be considered as May be harmful if swallowed.**
- THIRAM :
- In animals : LD50/Rat: 2.600 mg/kg
- DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
- In animals : No mortality/Rat: 5 g/kg (Method: OECD Test Guideline 401)
- Dermal:** **According to its composition, can be considered as Slightly or not harmful in contact with skin**
- THIRAM :
- In animals : No mortality/24 h/Rabbit: 2.000 mg/kg
- DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
- In animals : No mortality/Rabbit: 5 g/kg (Method: OECD Test Guideline 402)

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

- Skin contact:** **According to its composition, can be considered as Causes skin irritation.**
- THIRAM :
- In animals : Skin irritation (Rabbit)
- DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :
- In animals : Slightly irritating to skin. (Rabbit, Exposure time: 24 h)
- Eye contact:** **According to its composition, can be considered as Causes serious eye irritation.**
- THIRAM :
- In animals : Eye irritation (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 its composition, can be considered as May cause an allergic skin reaction.**
- THIRAM :
- Skin sensitizer
- In animals : Weak sensitizing effects by skin contact. (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. Contains no ingredient listed as a mutagen**
- In vitro**
- THIRAM :
- Ames test in vitro: Active
- In vitro gene mutations test on mammalian cells: Inactive (Method: OECD Test Guideline 476)
- In vitro test for chromosomal abnormalities on CHO cells: Inactive (Method: OECD Test Guideline 473)
- DNA repair test on rats hepatocytes: Inactive
- 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**
- THIRAM :
- Micronucleus test in vivo mouse: Inactive (Method: OECD Test Guideline 474)
- Tests for chromosome aberrations in vivo in germ cells: Inactive (Method: OECD Test Guideline 483)
- 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.**
- THIRAM :
- In animals : Absence of carcinogenic effects in animal (rat, dog, 2 years, By diet)
- 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 hazard potential of this mixture.**

THIRAM :

- In animals : Two generations study.: Absence of toxic effects on fertility, Effects on prenatal and postnatal growth.
NOAEL (Parental toxicity) : 1,5 mg/kg bw/day
NOAEL (Fertility) : 9 mg/kg bw/day
NOAEL (Developmental Toxicity) : 3 mg/kg bw/day
(Rat, By diet)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

- In animals : Reproductive/Developmental Effects Screening Assay: No toxicity to reproduction
NOAEL (Parental toxicity) : 1 g/kg
NOAEL (Fertility) : 1 g/kg
(Method: OECD Test Guideline 421, Rat, By oral route)

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

THIRAM :

- In animals : Exposure during pregnancy
(Method: OECD Test Guideline 414, By oral route)
Toxic effects for foetal development, at doses that produce effects in mothers, No teratogenic effects
NOAEL (Developmental Toxicity) : 15 mg/kg bw/day
NOAEL (Maternal Toxicity) : < 7,5 mg/kg bw/day
(Rat)
Absence of toxic effects for foetal development
NOAEL (Developmental Toxicity) : > 5 mg/kg bw/day
NOAEL (Maternal Toxicity) : 2,5 mg/kg bw/day
(Rabbit)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

- In animals : Absence of toxic effects for foetal development.
NOAEL (Developmental Toxicity) : 2 g/kg
NOAEL (Maternal Toxicity) : < 0,125 g/kg
(Method: OECD Test Guideline 414, Rat, dermal route)

Specific target organ toxicity :

Single exposure : No data available.

Repeated exposure: **The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.**
Target Organs : Liver

THIRAM :

- In animals : By diet: Target organs: Stomach, Haematological system, NOAEL= 3,5 mg/kg (Rat, 3 months)

By diet: Target organs: Liver, Haematological system, NOAEL= 2 mg/kg (Dog, 3 months)
dermal route: Local irritation
NOAEL= 300 mg/kg (Rabbit, 3 Weeks)

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= > 2g/kg bw/d (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

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment: All available and relevant 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.

Acute aquatic toxicity : Very toxic to aquatic life.
Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.1. Acute toxicity :

Fish: **From its composition, it must be considered as: Very toxic to fish.**

THIRAM :

LC50, 96 h (Oncorhynchus mykiss) : 0,046 mg/l (Method: OECD Test Guideline 203)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

LL50, 96 h (Pimephales promelas (fathead minnow)) : > 100 mg/l (Method: OECD Test Guideline 203)
No effect up to the limit of solubility

Aquatic invertebrates:**From its composition, it must be considered as: Very toxic to daphnia.**

THIRAM :

EC50, 48 h (Daphnies (Daphnia Magna)) : 0,38 mg/l (Method: OECD Test Guideline 202, Immobilization)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

May be considered as comparable to a similar product for which experimental results are:
LL50, 48 h (Daphnia magna (Water flea)) : > 10.000 mg/l (Method: OECD Test Guideline 202, Immobilization) No effect up to the limit of solubility

Aquatic plants:**From its composition, it must be considered as: Very toxic to algae.**

THIRAM :

EC50, 72 h (Selenastrum capricornutum (green algae)) : 0,12 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

May be considered as comparable to a similar product for which experimental results are:
ErL50, 72 h (Pseudokirchneriella subcapitata (green algae)) : > 100 mg/l (Method: OECD Test Guideline 201)

Microorganisms:

THIRAM :

EC50, 3 h : 3,11 mg/l (Method: OECD Test Guideline 209, Respiration inhibition of activated sludge)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

May be considered as comparable to a similar product for which experimental results are:
NOEC, 4 d (Photobacterium phosphoreum) : > 1,93 mg/l (Method: DIN 38412)

Aquatic toxicity / Long term toxicity:**Fish:**

THIRAM :

NOEC, 33 d (Pimephales promelas) : 0,0046 mg/l (Method: OECD Test Guideline 210)

Aquatic invertebrates:

THIRAM :

NOEC, 21 d (Daphnia magna (Water flea)) : 0,040 mg/l (Method: OECD Test Guideline 211)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

May be considered as comparable to a similar product for which experimental results are:
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 (green algae)) : 100 mg/l (Method: OECD Test Guideline 201)

Non aquatic toxicity / Acute toxicity :**Toxicity to soil dwelling organisms:**

THIRAM :

LC50, 14 d (Eisenia fetida) : = 540 mg/kg (Soil dw) (Method: OECD Test Guideline 207)

12.2. Persistence and degradability :**Stability in water:**

THIRAM :

Half-life: 68,5 d at 25 °C and pH 5
Half-life: 6,9 h at 25 °C and pH 9
Method: No information available.
Half-life: 3,5 d at 25 °C and pH 7**Biodegradation (In water):****All the products and/or components quoted in section 3 and/or analogue substances/metabolites are not readily biodegradable.**

THIRAM :

Not readily biodegradable.: 40 % after 28 d (Method: OECD Test Guideline 301 D)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

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

12.3. Bioaccumulative potential :**Bioaccumulation:****Based on the available information, it is not possible to conclude on the bioaccumulation potential of this mixture.**

THIRAM :

Partition coefficient: n-octanol/water: log Kow : 1,8 - 2,1 (Method: OECD Test Guideline 117)

12.4. Mobility in soil - Distribution among environmental compartments:**Vapor pressure:**

0,00002 Pa, Active ingredientActive ingredient 25 °C, (Method: A4 Method (D. 92/69/ECC))

Absorption / desorption:

THIRAM :

Soil: log Koc: 3,3 - 4,4 (Method: OECD Test Guideline 106)

12.5. Results of PBT and vPvB assessment :

According to REACH regulation, annex XIII, this mixture contains no substance meeting PBT and vPvB criteria.

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

Regulation	14.1. UN number	14.2. UN proper shipping name	14.3. Class ^{s*}	Label	14.4. PG [*]	14.5. Environmental hazards	14.6. Special precautions for user
ADR	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TETRAMETHYLTHIURAM DISULPHIDE)	9	9	III	yes	
ADN	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TETRAMETHYLTHIURAM DISULPHIDE)	9	9	III	yes	
RID	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TETRAMETHYLTHIURAM DISULPHIDE)	9	9	III	yes	
IATA Cargo	3077	Environmentally hazardous substance, solid, n.o.s. (tetramethylthiuram disulphide)	9	9MI	III	yes	
IATA Passenger	3077	Environmentally hazardous substance, solid, n.o.s. (tetramethylthiuram disulphide)	9	9MI	III	yes	
IMDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (TETRAMETHYLTHIURAM DISULPHIDE)	9	9	III	Marine pollutant	EmS Number: F-A, S-F Mark: MP

*Description: 14.3. Transport hazard class(es)
14.4. Packing group

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable**15. REGULATORY INFORMATION**

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

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

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC): Distillates (petroleum), hydrotreated light paraffinic; Baseoil -- unspecified
 EU. REACH, Annex XVII, Appendix 2, Entry 28 - Carcinogens: Category 1B (Table 3). (Regulation 1907/2006/EC): Distillates (petroleum), hydrotreated light paraffinic; Baseoil -- unspecified
 Rotterdam Convention on the Prior Informed Consent (PIC) Procedure for Certain Hazardous Chemicals and Pesticides in International Trade: tetramethylthiuram disulphide

15.2. Chemical safety assessment: None.**INVENTORIES:**

EINECS: Conforms to
 TSCA: Conforms to
 DSL: All components of this product are on the Canadian DSL
 IECSC (CN): Conforms to
 ENCS (JP): Conforms to
 ISHL (JP): Conforms to
 KECI (KR): Conforms to
 PICCS (PH): The mixture contains a polymer. All the monomers for this polymer & other substances are listed on the inventory, Consult Arkema., Conforms to
 AICS: Conforms to
 NZIOC: Conforms to

16. OTHER INFORMATION**Full text of H, EUH-phrases referred to under sections 2 and 3**

H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Update:

Safety datasheet sections which have been updated:		Type:
1	1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING, Emergency telephone number	Revisions
12	12. ECOLOGICAL INFORMATION	Revisions

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).
