

SAFETY DATA SHEET (EC 1907/2006)

DMT-H (DMI-sustainable)/ 315-Co-Free (DMT-Derivate)

Material no.	Version	2.0 / REG_EU
Specification	Revision date	18.09.2014
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OXXYNOVA
RELIABILITY & COMPETENCE

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name DMT-H (DMI-sustainable)/ 315-Co-Free (DMT-Derivate)

REACH Registration No.: 01-2119555281-43-0001

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

Relevant applications identified Plastics additives
Raw material for production of synthetic resins

1.3. Details of the supplier of the safety data sheet

Company Oxxynova GmbH
Borsteler Weg 50
D-31595 Steyerberg

Telephone +49 (0)6181 59-3086
Telefax +49 (0)6181 59-2083
Email address info@oxxynova.com

1.4. Emergency telephone number

Emergency information +49 (0)2365 49-2232 (international)
Emergency information +49 (0)2365 49-4423 (fax)

2. Hazards identification

2.1. Classification of the substance or mixture

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

EU-CLP as per Regulation (EU) No. 1272/2008

Skin Sensitisation	Category 1	H317
Hazardous to the aquatic environment - Chronic Hazard	Category 3	H412

Classification as per Directive 67/548/EC or Directive 1999/45/EC

Xi, Irritant
R43: May cause sensitisation by skin contact.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Labelling as per (EU) 1272/2008

Statutory basis EU-CLP as per Regulation (EU) No. 1272/2008

hazard-defining component(s) (GHS)

• 1,4-Benzenedicarboxylic acid, dimethyl ester, manuf. of, by-products from
Symbol(s)



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Signal word	Warning
Hazard statement	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statement: Prevention	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection.
Precautionary statement: Reaction	P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
Precautionary statement: Disposal	P501 - Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

Do not allow material to contaminate ground water system.
Avoid formation of vapour.
Do not breathe vapour.
A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

3. Composition/information on ingredients

Chemical nature
UVCB substance

3.1. Substances

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• dimethyl terephthalate		0% - 35%	
CAS-No.	120-61-6	EC-No.	204-411-8
REACH-No.	01-2119472299-26-0004		
Remarks	Not a hazardous material according to the Directive (EEC) No. 1272/2008 .		
• dimethyl isophthalate		0% - 60%	
CAS-No.	1459-93-4	EC-No.	215-951-9
Remarks	Not a hazardous material according to the Directive (EEC) No. 1272/2008 .		
• Dimethylorthophthalat		0% - 15%	
CAS-No.	131-11-3	EC-No.	205-011-6
Remarks	Not a hazardous material according to the Directive (EEC) No. 1272/2008 .		
• trimethyl benzene-1,2,4-tricarboxylate		0% - 15%	
CAS-No.	2459-10-1	EC-No.	219-547-3
Remarks	Not a hazardous material according to the Directive (EEC) No. 1272/2008 .		
• methyl hydrogen terephthalate		0% - 5%	
CAS-No.	1679-64-7	EC-No.	216-849-7
Eye irritation			Category 2 H319
• p-xylene		0% - 5%	
CAS-No.	106-42-3	EC-No.	203-396-5
REACH-No.	01-2119484661-33		
Flammable liquids			Category 3 H226
Acute toxicity			Category 4 H312

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Acute toxicity	Category 4	H332
Skin irritation	Category 2	H315
Remarks	From Annex VI, Directive (EC) No. 1272/2008 supplemental classification with:	
Aspiration hazard	Category 1	H304
Eye irritation	Category 2	H319
Specific Target Organ Toxicity - Single exposure	Category 3	H335
• methyl p-toluate 0% - 5%		
CAS-No. 99-75-2	EC-No. 202-784-1	
Skin irritation	Category 2	H315
Eye irritation	Category 2	H319
• methyl 4-formylbenzoate 0% - 10%		
CAS-No. 1571-08-0	EC-No. 216-385-5	
Remarks	Not a hazardous material according to the Directive (EEC) No. 1272/2008 .	
• p-toluic acid 0% - 5%		
CAS-No. 99-94-5	EC-No. 202-803-3	
Acute toxicity	Category 4	H302
Eye irritation	Category 2	H319

Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC

• dimethyl terephthalate 0% - 35%			
CAS-No. 120-61-6	EC-No. 204-411-8	REACH-No. 01-2119472299-26-0004	
• dimethyl isophthalate 0% - 60%			
CAS-No. 1459-93-4	EC-No. 215-951-9		
• Dimethylorthophthalat 0% - 15%			
CAS-No. 131-11-3	EC-No. 205-011-6		
• trimethyl benzene-1,2,4-tricarboxylate 0% - 15%			
CAS-No. 2459-10-1	EC-No. 219-547-3		
• methyl hydrogen terephthalate 0% - 5%			
CAS-No. 1679-64-7	EC-No. 216-849-7		
	Xi; R36		
• p-xylene 0% - 5%			
CAS-No. 106-42-3	EC-No. 203-396-5	REACH-No. 01-2119484661-33	
	R10 Xn; R20/21 Xi; R38		
	From Appendix 1, EEC Directive 67/548/EEC deviating and / or additional classification with: Xn; R65 Xi; R36/37		
• methyl p-toluate 0% - 5%			
CAS-No. 99-75-2	EC-No. 202-784-1		
	Xi; R36/38		
• methyl 4-formylbenzoate 0% - 10%			
CAS-No. 1571-08-0	EC-No. 216-385-5		
• p-toluic acid 0% - 5%			
CAS-No. 99-94-5	EC-No. 202-803-3		
	Xn; R22 Xi; R36		

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Texts of H phrases, see in Chapter 16
See chapter 16 for text of risk phrases

3.2. Mixtures

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4. First aid measures

4.1. Description of first aid measures

Pay attention to self-protection.

Remove victims from hazardous area. Immediately remove soiled or soaked clothing and remove it to a safe distance. Keep victim warm, in a stabilized position and covered.

Do not leave victims unattended.

If the casualty is unconscious: Place the victim in the recovery position.

Inhalation

Inhalation is possible if aerosols, mists, dusts, or smoke form.

Move victims into fresh air.

With labored breathing: Provide with oxygen. Consult a doctor.

If the casualty is not breathing: Perform mouth-to-mouth resuscitation, notify emergency physician immediately.

Skin contact

Wash off affected area immediately with plenty of water for at least 15 minutes.

If symptoms persist, consult a physician for treatment.

Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.

In case of persistent discomfort: Consult an ophthalmologist.

Ingestion

Rinse out mouth.

Immediately give large quantities of water to drink.

Consult a physician immediately.

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

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

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: water spray
foam
carbon dioxide (CO₂)
dry powder

Unsuitable extinguishing media: high volume water jet

5.2. Special hazards arising from the substance or mixture

Hazard-determining flue gases might develop in case of fire:

Carbon monoxide

carbon dioxide (CO₂)

5.3. Advice for firefighters

Water for fire fighting must not be introduced in the sewer system, subsoil, or surface waters. Assure that there are sufficient fire water retaining facilities Contaminated fire fighting water must be disposed of in conformity with the regulations of the local authorities.

Fire residues should be disposed of in accordance with the regulations.

Wear suitable protective clothing.

wear a self contained respiratory apparatus

6. Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment; see section 8.
Do not breathe vapours/dust.
Ensure adequate ventilation.

6.2. Environmental precautions

Prevent product from entering drains.
Do not allow entrance in sewage water, soil or stretches of water.

6.3. Methods and material for containment and cleaning up

Allow to solidify, use mechanical handling equipment.

6.4. Reference to other sections

Wear personal protective equipment; see section 8.

7. Handling and storage**7.1. Precautions for safe handling**

Observe the rules usually applicable when handling chemicals.
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.
Provide sufficient air exchange and/or exhaust in work rooms.

7.2. Conditions for safe storage, including any incompatibilities**Advice on protection against fire and explosion**

Normal measures for preventive fire protection.

Storage

Keep container tightly closed.

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

8. Exposure controls/personal protection**8.1. Control parameters**

• p-xylene			
CAS-No.	106-42-3	EC-No.	203-396-5
Control parameters	50 ppm 221 mg/m ³		Time Weighted Average (TWA):(EU ELV)
Control parameters	100 ppm 442 mg/m ³		Short Term Exposure Limit (STEL):(EU ELV)
Control parameters			Skin designation:(EU ELV)
	Can be absorbed through the skin.		

DNEL/DMEL values

Remarks

No substance-related safety assessment is necessary / has been conducted for this product.

PNEC values

Remarks

No substance-related safety assessment is necessary / has been conducted for this product.

8.2. Exposure controls**Engineering measures**

Ensure suitable suction/aeration at the work place and with operational machinery.

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Personal protective equipment

Respiratory protection

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter or wear a self contained respiratory apparatus Half mask with a particle filter P2 (EN 143).

Note time limit for wearing respiratory protective equipment.

Hand protection

Recommendation:

suitable protective gloves

Glove material leather gloves, heat insulating

Eye protection

safety glasses with side-shields conforming to EN166

Closed goggles in case of splash risk

face-shield

Skin and body protection

Heat-insulating protective clothing, e.g. made of Nomex, worn together with cotton clothing

S2 Safety boots, half-shaft boots

Hygiene measures

Do not inhale vapours from hot product.

Wash off immediately in the event of contact with the skin (rinsing agent: glycol polyethylene 400), rinse off afterwards with copious amounts of water.

Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work.

Take off clothing and shoes contaminated with product. Clean before reuse.

Protective measures

The personal protective equipment used must meet the requirements of directive 89/686/EEC and amendments (CE certification).

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Form	melt
Colour	colourless - brownish black

Odour specific

Odour threshold: No data available

pH No data available

Softening point > 50 °C
Method: OECD TG 102

Boiling point/range No data available

Flash point 187 °C
Method: DIN 51758

Evaporation rate No data available

Flammability (solid, gas) Method: EEC method 84/449/EEC, A 10
Not combustible.

Lower explosion limit No data available

Upper explosion limit No data available

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Vapour pressure	0,536 hPa (20 °C) Method: OECD Test Guideline 104
Density	1,25 g/cm ³ (25 °C) Method: OECD Test Guideline 109
Relative density	No data available
Water solubility	practically insoluble
Partition coefficient (n-octanol/water)	log Pow: 3,2 (25 °C)
Autoinflammability	not spontaneously flammable
Thermal decomposition	ca. 400 °C
Viscosity, dynamic	30,00 - 100,00 mPa.s (200 °C)
Explosiveness	not explosive
Oxidizing properties	not oxidizing

9.2. Other information

Ignition temperature	ca. 540 °C Method: DIN 51 794
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10. Stability and reactivity

10.1. Reactivity

No further information available

10.2. Chemical stability

No further information available

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No further information available

10.4. Conditions to avoid

No further information available

10.5. Incompatible materials

No further information available

10.6. Hazardous decomposition products

Decomposition products on thermal decomposition
Formaldehyde

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity	LD50 Rat(female): > 2000 mg/kg Method: OECD TG 423
Acute inhalation toxicity	No data available
Acute dermal toxicity	Rat(male/female): > 2000 mg/kg Method: OECD Test Guideline 402
Skin irritation	Rabbit / 4 h

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	not irritating
	Method: OECD Test Guideline 404
Eye irritation	Rabbit not irritating
	Method: OECD Test Guideline 405
Sensitization	Local Lymphnode Assay mouse: sensitizing
	Method: OECD TG 429
Assessment of STOT single exposure	No data available
Assessment of STOT repeat exposure	No data available
Risk of aspiration toxicity	No data available
Gentotoxicity in vitro	Ames test Salmonella typhimurium negative
	Metabolic activation: with or without
	Method: OECD TG 471
	Chromosome aberration test in vitro human lymphocytes negative
	Metabolic activation: with or without
	Method: OECD TG 473
	Genetic mutation in mammal cells TK +/- mouse lymphoma cell (L5178Y) negative
	Metabolic activation: with or without
	Method: OECD TG 476
Carcinogenicity	No data available
Toxicity to reproduction	No data available
Toxicology Assessment	
Acute effects	Due to the data available, the classification criteria for all further toxicological end points are not fulfilled
Sensitization	May cause an allergic skin reaction.
CMR assessment	
Mutagenicity	based on available data, the classification criteria are not met.

12. Ecological information**12.1. Toxicity**

Toxicity to fish	LC50 Cyprinus carpio: > 100 mg/l / 96 h
	Method: OECD TG 203
Toxicity in aquatic invertebrates	EC50 Daphnia magna: 32 - 56 mg/l / 48 h
	Method: OECD TG 202
Toxicity to algae	EC50 Pseudokirchneriella subcapitata: > 100 mg/l / 96 h
	Method: OECD Test Guideline 201
	NOEC Pseudokirchneriella subcapitata: 100 mg/l / 96 h
	Method: OECD Test Guideline 201
Toxicity to bacteria	EC50 static test local activated sludge: > 100 mg/l / 3 h

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Method: OECD TG 209

Toxicity in organisms which live in the soil No test results available.
Toxicity in terrestrial plants No test results available.

12.2. Persistence and degradability

Biodegradability
inoculum: Activated sludge, industrial, non-adapted
Exposure time: 28 d
Result: biodegradable
Method: OECD TG 301 B

12.3. Bioaccumulative potential

Bioaccumulation No data available

12.4. Mobility in soil

Mobility
logKOC: 2,49
Method: calculated

12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6. Other adverse effects

Further Information No further information available

Ecotoxicology Assessment

Acute aquatic toxicity Due to the data available, the classification criteria for all further ecotoxicological end points are not fulfilled.
Chronic aquatic toxicity Harmful to aquatic life with long lasting effects.

13. Disposal considerations

13.1. Waste treatment methods

Product

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

Uncleaned packaging

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.

14. Transport information

Transport on land (ADR/RID/GGVSEB)

14.1. UN number: UN 3257
14.2. UN proper shipping name: ELEVATED TEMPERATURE LIQUID, N.O.S.(1,4-

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- 4.3. Transport hazard class(es): Benzoldicarmonic acid, Dimethylester (molten))
9
4.4. Packing group: III
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
ADR: Tunnel Restriction Code: (D)
Designation for substances transported in a heated state (ET).

Inland waterway transport (ADN/GGVSEB (Germany))

- 14.1. UN number: UN 3257
14.2. UN proper shipping name: ELEVATED TEMPERATURE LIQUID, N.O.S.(1,4-Benzoldicarmonic acid, Dimethylester (molten))
4.3. Transport hazard class(es): 9
4.4. Packing group: III
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
Designation for substances transported in a heated state (ET).

Air transport ICAO-TI/IATA-DGR

- 14.1. UN number: UN 3257
14.2. UN proper shipping name: Elevated temperature liquid, n.o.s.(1,4-Benzoldicarmonic acid, Dimethylester (molten))
4.3. Transport hazard class(es): 9
14.4. Packing group: --
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
IATA-C: Transport prohibited.
IATA-P: Transport prohibited.
Designation for substances transported in a heated state (ET).

Sea transport IMDG-Code/GGVSee (Germany)

- 14.1. UN number: UN 3257
14.2. UN proper shipping name: ELEVATED TEMPERATURE LIQUID, N.O.S.(1,4-Benzoldicarmonic acid, Dimethylester (molten))
4.3. Transport hazard class(es): 9
4.4. Packing group: III
14.5. Environmental hazards: --
14.6. Special precautions for user: Yes
EmS: F-A,S-P
Under deck in a mechanically ventilated space.
Designation for substances transported in a heated state (ET).
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transportapproval see regulatory information

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National legislation**

Regulations on labour safety: It must be determined whether preventive substance-specific occupational medical examinations in accordance with national law in each case must be offered / carried out at regular intervals.

15.2. Chemical safety assessment

Chemical safety assessment No substance-related safety assessment is necessary / has been conducted for this product.

16. Other information

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Risk phrase (R phrase) texts

- **methyl hydrogen terephthalate**

R36 Irritating to eyes.

- **p-xylene**

R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

R38 Irritating to skin.

R65 Harmful: may cause lung damage if swallowed.

R36/37 Irritating to eyes and respiratory system.

- **methyl p-toluate**

R36/38 Irritating to eyes and skin.

- **p-toluic acid**

R22 Harmful if swallowed.

R36 Irritating to eyes.

Texts of the H-phrases

- **methyl hydrogen terephthalate**

H319 Causes serious eye irritation.

- **p-xylene**

H226 Flammable liquid and vapour.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

- **methyl p-toluate**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

- **p-toluic acid**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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**Legend**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCi	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization