

# SAFETY DATA SHEET

Issuing Date: 01-08-2015 **Revision Date: 11-11-2014** Version 1

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

1.1.

**Product identifier** 

Product Code(s) (ES): 70047153-M **Product Name** HML 7153D

**Product Registration number** 

**Denmark Norway** Sweden

EC# Not Applicable

Pure substance/preparation

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

Recommended use Metalworking fluid: Lubricant

Uses advised against Any other purpose.

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

## Manufacturer, Importer, Supplier

Houghton plc Houghton S.A.S. Houghton Iberica S.A.

Beacon Road 604 Bd Albert Camus, Pol. Ind. Can Salvatella-TorreMateu 08210 Barbera del Valles Trafford Park BP 60041

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# 1.4. Emergency telephone number

3E Company: (+)1 760 476 3961 ( Code 333938 )

Austria	Notfall-Telefonnummer +43 (0) 1 406 4343			
Bulgaria	Телефон за спешни случаи +359 2 9154 409			
Switzerland	145; +41 (0) 44 254 51 51			
Czech Republic	Telefonní číslo pro naléhavé situace +420 224 919 293			
Denmark	Ring til Giftlinjen på +45 82 12 12 12			
Finland	Hätäpuhelinnumero +358 09 471 977			
France	Numéro d'appel d'urgence +33 (0)1 45 42 5959			
Hungary	Díjmentesen hívható zöld szám +36 80 20 11 99			
Ireland	Emergency telephone number +353 01 809 2166			
Netherlands	Telefoonnummer voor +31 30 274 88 88			
Norway	Nødnummer +47 22 59 13 00			
Poland	112			
Portugal	Número de telefone de emergência +351 808 250 143			
Romania	Număr de telefon care poate fi apelat în caz de urgență +021 318 36 06 (08:00-15:00)			
Spain	Número de teléfono de emergencia +34 91 562 0420			
Sweden	Telefonnummer för nödsituationer +46 08 33 12 31 (09:00-17:00)			
Turkey	(+)1 760 476 3959 ( Code 333938 )			

# **SECTION 2: Hazards identification**

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

#### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

## 2.2. Label Elements

EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

No information available.

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# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances / 3.2. Mixtures

This product is a mixture. Health hazard information is based on its ingredients

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
2,2',2"-Nitrilotriethanol	203-049-8	102-71-6	2.5% - 10%	**	01-2119486482-31-xxx x
Neutralised Cyclohexylamine	203-629-0	108-91-8*	0% - 1%	Repr. 2 (H361f) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Flam Liq. 3 (H226)	01-2119486803-29-xxx x

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

# **SECTION 4: First aid measures**

# 4.1. Description of first-aid measures

General advice Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

When symptoms persist or in all cases of doubt seek medical advice.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention immediately if symptoms occur.

**Skin contact** Wash off immediately with soap and plenty of water. Remove and wash contaminated

clothing before re-use.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

ınsıng.

Ingestion Clean mouth with water and afterwards drink plenty of water. Call a POISON CENTER or

doctor/physician if exposed or you feel unwell.

material(s) involved, and take precautions to protect themselves.

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

Main Symptoms None

4.3. Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

# **SECTION 5: FIRE FIGHTING MEASURES**

# 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment:, Use CO2, dry chemical, or foam, Water spray or fog

#### Extinguishing media which shall not be used for safety reasons

None

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

## **Special Hazard**

Thermal decomposition can lead to release of irritating gases and vapors.

### **Hazardous Decomposition Products**

None under normal use

#### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: Accidental release measures**

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

Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

Advice for non-emergency personnel

Material can create slippery conditions.

**Advice for emergency responders** For personal protection see section 8.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

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

After cleaning, flush away traces with water.

#### 6.4. Reference to other sections

See Section 8/12/13 for additional information.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

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

#### Technical measures/Storage conditions

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

#### **Recommended Shelf Life**

No information available.

# **Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases

#### 7.3. Specific end uses

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Specific use(s) Metalworking fluid: Lubricant

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

# 8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain
2,2',2"-Nitrilotriethanol				TWA: 5 mg/m <sup>3</sup>
Neutralised Cyclohexylamine		STEL: 30 ppm STEL: 123 mg/m³ TWA: 10 ppm TWA: 41 mg/m³	VME: 10 ppm VME: 40 mg/m³	TWA: 10 ppm TWA: 41 mg/m³

Chemical Name	Germany	Italy	Portugal	The Netherlands
2,2',2"-Nitrilotriethanol	MAK: 5 mg/m <sup>3</sup>		TWA: 5 mg/m <sup>3</sup>	
	Ceiling / Peak: 20 mg/m <sup>3</sup>		_	
Neutralised	MAK: 2 ppm MAK: 8.2		TWA: 10 ppm	
Cyclohexylamine	mg/m³			
	Ceiling / Peak: 4 ppm Ceiling			
	/ Peak: 16.4 mg/m <sup>3</sup>			

Chemical Name	Austria	Switzerland	Poland	Ireland
2,2',2"-Nitrilotriethanol	STEL 1.6 ppm STEL 10 mg/m³ MAK: 0.8 ppm MAK: 5 mg/m³			TWA: 5 mg/m <sup>3</sup>
Neutralised Cyclohexylamine	Skin STEL 10 ppm STEL 40 mg/m³ MAK: 10 ppm MAK: 40 mg/m³ Ceiling 10 ppm Ceiling 40 mg/m³	Skin STEL: 4 ppm STEL: 16.4 mg/m³ MAK: 2 ppm MAK: 8.2 mg/m³	NDSCh: 80 mg/m³ NDS: 40 mg/m³ Skin	TWA: 10 ppm TWA: 40 mg/m³ Skin

Chemical Name	Finland	Denmark	Norway	Sweden
2,2',2"-Nitrilotriethanol	TWA: 5 ppm	TWA: 0.5 ppm TWA: 3.1 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	LLV: 5 mg/m³ STV: 10 mg/m³
Neutralised Cyclohexylamine	TWA: 1 ppm TWA: 4.1 mg/m³ STEL: 10 ppm STEL: 41 mg/m³ Skin	TWA: 10 ppm TWA: 40 mg/m³ Skin	TWA: 10 ppm TWA: 40 mg/m³ Skin STEL: 20 ppm STEL: 60 mg/m³	LLV: 5 ppm LLV: 20 mg/m³ STV: 10 ppm STV: 40 mg/m³

Chemical Name	Czech Republic	Hungary	Bulgaria	Romania
2,2',2"-Nitrilotriethanol	Ceiling: 10 mg/m <sup>3</sup>		TWA: 3.0 mg/m <sup>3</sup>	
	TWA: 5 mg/m <sup>3</sup>			
Neutralised	Ceiling: 40 mg/m <sup>3</sup>	STEL: 40 mg/m <sup>3</sup>	TWA: 20.0 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 20 mg/m <sup>3</sup>
Cyclohexylamine	TWA: 20 mg/m <sup>3</sup>	TWA: 40 mg/m <sup>3</sup>	_	STEL: 10 ppm STEL: 40
	Skin	_		mg/m³

# **Workers Systemic toxicity**

Chemical Name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation
	· ·	·	exposure	·	·	exposure
Neutralised Cyclohexylam	ine	0.4 mg/kg	5 mg/m³		0.8 mg/kg	8.2 mg/m <sup>3</sup>

# **Workers Local effects**

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#### **Consumers Systemic toxicity**

Chemical Name	Long term - Oral exposure	Long term - Dermal exposure	Long term - Inhalation	Short term - Oral Exposure	Short term - Dermal exposure	Short term - Inhalation
			exposure			exposure
Neutralised Cyclohexylamine	0.2 mg/kg	0.2 mg/kg	0.6 mg/m <sup>3</sup>	0.4 mg/kg	0.4 mg/kg	1.2 mg/m <sup>3</sup>

#### Consumers Local effects

#### **Predicted No Effect Concentration (PNEC)**

Chemical Name	Fresh water	Sea water	Fresh water sediment	Sea sediment	Soil
Neutralised	0.032 mg/L	0.0032 mg/L	8.15 mg/kg	0.82 mg/kg	1.61 mg/kg
Cyclohexylamine					

#### 8.2. Exposure controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

**Eye Protection** Safety glasses with side-shields.

Protective gloves. Please observe the instructions regarding permeability and breakthrough **Hand Protection** 

time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Barrier creams may help to protect the exposed areas of skin, they should

however not be applied once exposure has occurred.

Skin and body protection

Long sleeved clothing.

Respiratory protection No special protective equipment required. In case of mist, spray or aerosol exposure wear

suitable personal respiratory protection and protective suit.

Do not eat, drink or smoke when using this product. Handle in accordance with good Hygiene measures

industrial hygiene and safety practice.

**Environmental Exposure Controls** 

No special environmental precautions required.

Thermal hazards

None under normal use conditions

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

#### 9.1. Information on basic physical and chemical properties

Physical state @20°C liquid Dark brown **Appearance** Odor Mild **Odor Threshold** Not Applicable

Property Values Note

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**Melting Point / Freezing Point** No information available. Boiling point/boiling range No information available.

Flash point Not Applicable

**Evaporation rate** No information available Flammability (solid, gas) No information available

Flammability Limits in Air

upper flammability limit No information available. Lower flammability limit No information available.

No information available. Vapor pressure No information available. Vapor density

Relative density 1.07 @15.5°C

Solubility(ies) Soluble in water Partition coefficient: n-octanol/water Not Applicable

**Autoignition temperature** No information available

**Decomposition temperature**No information available

Viscosity, kinematic 4.6 cSt @ 40 °C ISO 3104 ISO 3105

**Explosive properties**Not Applicable

Oxidizing Properties
Not Applicable

9.2 Other information

Viscosity, kinematic (100°C)No information availablePour pointNo information availableVOC ContentNo information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None under normal use conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

None under normal use conditions

#### 10.4. Conditions to avoid

Do not freeze

#### 10.5. Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

## 10.6. Hazardous decomposition products

None under normal use conditions

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

# **Product Information - Principle Routes of Exposure**

**Inhalation** None known

Eye contact None known

Skin contact None known

**Ingestion** None known

#### **Acute toxicity - Product Information**

Product does not present an acute toxicity hazard based on known information.

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
2,2',2"-Nitrilotriethanol		> 16 mL/kg (Rat) > 2000 mg/kg (	

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		Rabbit )	
Neutralised Cyclohexylamine	376 - 496 mg/kg ( Rat )		

**Skin corrosion/irritation** None known.

Serious eye damage/eye irritation None known.

Sensitization

**Respiratory Sensitization Skin sensitization**None known.
None known.

Germ Cell Mutagenicity None known.

Carcinogenicity None known.

Reproductive toxicity May impair fertility. May cause harm to the unborn child. Contains a known or suspected

reproductive toxin.

Specific target organ systemic

toxicity (single exposure)

None known

Specific target organ systemic toxicity (repeated exposure)

None known.

Aspiration hazard

None known.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
2,2',2"-Nitrilotriethanol	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600-13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450-1000: 96 h Lepomis macrochirus mg/L LC50 static	Ţ.	1386: 24 h Daphnia magna mg/L EC50
Neutralised Cyclohexylamine	20: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 20: 96 h Pseudokirchneriella subcapitata mg/L EC50	44-90: 96 h Oncorhynchus mykiss mg/L LC50 470: 96 h Brachydanio rerio mg/L LC50 static		49: 24 h Daphnia magna mg/L EC50

## 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

Chemical Name	log Pow	
2,2',2"-Nitrilotriethanol	-2.53	
Neutralised Cyclohexylamine	1.2	

## 12.4. Mobility in soil

Miscible with water

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

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

#### 12.6. Other adverse effects

None known

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from Residues / Unused

**Products** 

Dispose of in accordance with local regulations

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal. Observe all label precautions until container is cleaned, reconditioned or

destroyed.

Other Data According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific. Waste codes should be assigned by the user based on the application

for which the product was used.

# **SECTION 14: Transport information**

#### 14.1. UN-Number

Not regulated

#### 14.2. UN proper shipping name

Not regulated

#### 14.3. Transport hazard class

Not regulated

## 14.4. Packing group

Not regulated

#### 14.5. Environmental Hazards

None.

#### 14.6. Special precautions for users

None.

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

Not applicable

IMDG/IMONot regulatedADR/RIDNot regulated

ICAO/IATA Not regulated

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# **SECTION 15: Regulatory information**

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

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008) Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

Statutory Instruments: Control of Substances Hazardous to Health Regulations 2002. Chemicals (Hazard Information and Packaging) Regulations 2009.

Acts of Parliament: The Health and Safety at Work etc. Act 1974. Environment Protection Act 1990.

Regulation on classification, labeling. of hazardous chemicals (2002 changing 2005). Appendix VI to Regulation on classification, labeling etc. of hazardous chemicals (2002 changing 2010), list of hazardous substances (as amended). Guidelines for submission and declaration of hazardous waste (2009). Transport of dangerous goods: ADR, RID, IMDG and IATA. Administrative norms for pollution of the atmosphere, 2009.

Workplace exposure limits (EH40)

**WGK Classification** 

Hazard to water/Class 2

#### 15.2. Chemical Safety Assessment

No information available.

# **SECTION 16: Other information**

## Key or legend to abbreviations and acronyms used in the safety data sheet

Repr.-Reproduction toxicity
Asp. Tox. - Aspiration Toxicity

Acute Tox. - Acute Toxicity

Aquatic Acute - Acute Aquatic Toxicity

Aquatic Chronic - Chronic Aquatic Toxicity

Eye Dam. - Eye Damage

Eye Irrit. - Eye Irritation

Skin Corr. - Skin Corrosion

Skin Irrit. - Skin Irritation

Skin Sens. - Skin Sensitizer

Resp. Sens. - Respiratory Sensitizer

STOT SE - Specific target organ systemic toxicity (Single exposure)

STOT RE - Specific target organ systemic toxicity (repeated exposure)

VOC - Volatile organic compounds

Full text of H-Statements referred to under sections 2 and 3

H224 - Extremely flammable liquid and vapor H341 - Suspected of causing genetic defects H225 - Highly flammable liquid and vapor H350 - May cause cancer H226 - Flammable liquid and vapor H351 - Suspected of causing cancer H270 - May cause or intensify fire; oxidizer H360 - May damage fertility or the unborn child H271 - May cause fire or explosion: strong oxidizer H361 - Suspected of damaging fertility or the unborn child H272 - May intensify fire; oxidizer H362 - May cause harm to breast-fed children H290 - May be corrosive to metals H370 - Causes damage to organs H300 - Fatal if swallowed H371 - May cause damage to organs H301 - Toxic if swallowed H372 - Causes damage to organs through prolonged or repeated H302 - Harmful if swallowed exposure H304 - May be fatal if swallowed and enters airways • H373 - May cause damage to organs through prolonged or repeated H310 - Fatal in contact with skin exposure H311 - Toxic in contact with skin • H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H312 - Harmful in contact with skin H314 - Causes severe skin burns and eye damage H411 - Toxic to aquatic life with long lasting effects H412 - Harmful to aquatic life with long lasting effects H315 - Causes skin irritation H317 - May cause an allergic skin reaction H413 - May cause long lasting harmful effects to aquatic life. H360Df - May damage the unborn child. Suspected of damaging fertility H318 - Causes serious eye damage H360D - May damage the unborn child H319 - Causes serious eye irritation H330 - Fatal if inhaled H360FD - May damage fertility. May damage the unborn child H331 - Toxic if inhaled H360F - May damage fertility H332 - Harmful if inhaled H361d - Suspected of damaging the unborn child H334 - May cause allergy or asthma symptoms or breathing difficulties · H361fd - Suspected of damaging fertility. Suspected of damaging the if inhaled unborn child H335 - May cause respiratory irritation H361f - Suspected of damaging fertility EUH066 - Repeated exposure may cause skin dryness or cracking H336 - May cause drowsiness or dizziness H340 - May cause genetic defects EUH210 - Safety data sheet available on request. EUH208 - May produce an allergic reaction

#### **Exposure scenario**

No information available.

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#### **Revision Note**

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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