according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version SDS Number: **Revision Date:** 2.1 04.03.2019 H51231

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

1.1 Product identifier

Trade name : GTI 411-F

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

Use of the : Curing chemical

Substance/Mixture

Recommended restrictions For use in industrial installations or professional treatment

on use only.

1.3 Details of the supplier of the safety data sheet

Company Roberlo s.a.

> Ctra. Nacional II, Km. 706,5 17457 Riudellots de la Selva

Spain

Telephone : +34972478060

Telefax : +34972477394

E-mail address of person

responsible for the SDS

: msds@roberlo.com

# 1.4 Emergency telephone number

+34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

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

# 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Acute toxicity, Category 4 H332: Harmful if inhaled.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated H373: May cause damage to organs through

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

exposure, Category 2 prolonged or repeated exposure if inhaled.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters

airways.

#### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

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.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or

repeated exposure if inhaled.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.
P260 Do not breathe vapours.
P260 Do not breathe spray.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P331 Do NOT induce vomiting.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Hazardous components which must be listed on the label:

HDI oligomers, isocyanurate n-butyl acetate xylene (mixture of isomers) ethylbenzene

## **Additional Labelling**

EUH204 Contains isocyanates. May produce an allergic reaction.

according to Regulation (EC) No. 1907/2006



# GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

### 3.2 Mixtures

Chemical nature : Paint

### **Hazardous components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
HDI oligomers, isocyanurate	28182-81-2 500-060-2 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335	>= 30 - < 50
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	>= 30 - < 50
xylene (mixture of isomers)	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304	>= 10 - < 20
ethylbenzene	100-41-4 202-849-4 601-023-00-4 01-2119489370-35	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 2.5 - < 10
Solvent naphtha (petroleum), light arom.	64742-95-6 265-199-0 649-356-00-4	Flam. Liq. 3; H226 STOT SE 3; H335 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 1 - < 2.5

For explanation of abbreviations see section 16.

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

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

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

Symptoms : Inhalation may provoke the following symptoms:

Headache Vertigo Fatique

Skin contact may provoke the following symptoms:

Redness

Ingestion may provoke the following symptoms:

Abdominal pain Vomiting Diarrhoea

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

Treatment : In case of ingestion, the stomach should be emptied by gastric

lavage under qualified medical supervision.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

Hazardous combustion

products

: No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored

separately in closed containments.

Use a water spray to cool fully closed containers.

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

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

Personal precautions Use personal protective equipment.

> Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

# 6.3 Methods and material for containment and cleaning up

Methods for cleaning up Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

#### 6.4 Reference to other sections

For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version **Revision Date:** SDS Number: 2.1 04.03.2019 H51231

> Smoking, eating and drinking should be prohibited in the application area.

Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Persons susceptible to skin sensitisation problems or asthma. allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

When using do not eat or drink. When using do not smoke. Hygiene measures

Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and wellventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Storage period 12 Months

Further information on storage stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) For the use of this product do not exist particular

recommendations apart from that already indicated.

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

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
HDI oligomers,	28182-81-2	TWA	0.02 mg/m3	GB EH40
isocyanurate			(as -NCO)	
Further information	Substances that can cause occupational asthma (also known as asthmagens			
	and respiratory sensitisers) can induce a state of specific airway hyper-			
	responsiveness via an immunological, irritant or other mechanism. Once the			
	airways have become hyper-responsive, further exposure to the substance,			
	sometimes even to tiny quantities, may cause respiratory symptoms. These			
	symptoms can range in severity from a runny nose to asthma. Not all workers			

according to Regulation (EC) No. 1907/2006



# **GTI 411-F**

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyperresponsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers.. Wherever it is reasonably practicable. exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation'; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.

STEL 0.07 mg/m3 GB EH40 (as -NCO)

#### Further information

Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyperresponsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance those who are likely to become hyperresponsive. 54 Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified asthmagens or respiratory sensitisers., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma. The identified substances are those which: - are assigned the risk phrase 'R42: May cause sensitisation by inhalation; or 'R42/43: May cause sensitisation by inhalation and skin contact' or - are listed in section C of HSE publication 'Asthmagen?

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# **GTI 411-F**

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

asthma' as updated from time to time, or any other substance which the risk assessment has shown to be a potential cause of occupational asthma., The Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma.  n-butyl acetate  123-86-4  TWA  150 ppm  724 mg/m3  STEL  200 ppm  966 mg/m3  xylene (mixture of isomers)  Further information  Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.  STEL  100 ppm  GB EH40  220 mg/m3  Further information  Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.  STEL  100 ppm  GB EH40  441 mg/m3  Further information  Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.  TWA  50 ppm  441 mg/m3  Further information  Identifies the possibility of significant uptake through the skin, Indicative  TWA  100 ppm  442 mg/m3  Further information  Identifies the possibility of significant uptake through the skin, Indicative  ethylbenzene  100-41-4  TWA  100 ppm  2000/39/EC  442 mg/m3  Further information  Identifies the possibility of significant uptake through the skin, Indicative  STEL  200 ppm  2000/39/EC  8TEL  200 ppm  2000/39/EC  8TEL  200 ppm  2000/39/EC  8H40  441 mg/m3  Further information  Identifies the possibility of significant uptake through the skin, Indicative  TWA  100 ppm  441 mg/m3  Further information  Identifies the possibility of significant uptake through the skin, Indicative  TWA  100 ppm  2000/39/EC  8FEL  220 ppm  8B EH40  441 mg/m3  Further information  Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.  STEL  125 ppm  552 mg/m3  Further information  Can be absorbed through skin. The assigned substances are those for which there are	[	Critical asses	sments of the evider	nce for agents implicated in o	ccupational
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# **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
HDI oligomers, isocyanurate	28182-81-2	urinary diamine: 1 µmol/mol creatinine (Urine)	Post task	GB EH40 BAT

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	480 mg/m3
xylene	Workers	Inhalation	Long-term systemic effects	77 mg/m3
ethylbenzene	Workers	Inhalation	Long-term systemic effects	77 mg/m3

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

Low boiling point naphtha - unspecified Workers Inhalation Long-term systemic effects 608 mg/m3

### 8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Hand protection

Material : Solvent-resistant gloves

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

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

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

pH : Not applicable

Melting point/range : not determined

Boiling point/boiling range : not determined

Flash point : 28 °C

Method: ISO 1523, closed cup

Setaflash

Upper explosion limit / Upper

flammability limit

: not determined

Lower explosion limit / Lower :

flammability limit

not determined

Vapour pressure : not determined

Density : 0.970 g/cm3 (20 °C)

Method: ISO 2811-1

Solubility(ies)

Water solubility : immiscible

Viscosity

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

Viscosity, dynamic : 20 mPa.s (20 °C)

Method: ISO 2555

Viscosity, kinematic : < 20.5 mm2/s (40 °C)

#### 9.2 Other information

No data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

Strong acids and strong bases

### 10.6 Hazardous decomposition products

No data available

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

# **Acute toxicity**

#### **Product:**

Acute inhalation toxicity : Acute toxicity estimate: 18.03 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

### **Components:**

# HDI oligomers, isocyanurate:

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 0.543 mg/l

Exposure time: 4 h

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 10,768 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 17,600 mg/kg

Method: OECD Test Guideline 402

xylene (mixture of isomers):

Acute oral toxicity : LD50 Oral (Rat): 4,300 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 22.08 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg

Method: Converted acute toxicity point estimate

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 17.4 mg/l

Exposure time: 4 h Test atmosphere: gas

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 15,400 mg/kg

Method: OECD Test Guideline 402

Solvent naphtha (petroleum), light arom.:

Acute oral toxicity : LD50 Oral (Rat): 3,592 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l

Exposure time: 4 h

Test atmosphere: vapour

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

Acute dermal toxicity : LD50 (Rabbit): 3,160 mg/kg

Method: OECD Test Guideline 402

### Skin corrosion/irritation

**Product:** 

Result: Skin irritation

### Serious eye damage/eye irritation

**Product:** 

Remarks: Severe eye irritation

### Respiratory or skin sensitisation

**Product:** 

Result: May cause sensitisation by skin contact.

### Germ cell mutagenicity

**Product:** 

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Assessment

# Carcinogenicity

**Product:** 

Carcinogenicity - : Based on available data, the classification criteria are not met.

Assessment

# Reproductive toxicity

**Product:** 

Reproductive toxicity - : Based on available data, the classification criteria are not met.

Assessment

## STOT - single exposure

### **Product:**

**Exposure routes: Inhalation** 

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ toxicant, single

exposure, category 3 with narcotic effects.

### STOT - repeated exposure

### **Product:**

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

# **Aspiration toxicity**

### **Product:**

May be fatal if swallowed and enters airways.

#### **Further information**

**Product:** 

Remarks: Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

# **Components:**

HDI oligomers, isocyanurate:

Toxicity to algae : EC50 (Algae): 370 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

n-butyl acetate:

Toxicity to fish : LC50 (Fish): 18 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): 32 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 675 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

xylene (mixture of isomers):

Toxicity to fish : LC50 (Fish): 14 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): 16 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): > 10 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

ethylbenzene:

Toxicity to fish : LC50 (Fish): 12 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version **Revision Date:** SDS Number: 2.1 04.03.2019 H51231

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 1.8 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

: EC50 (Algae): 33 mg/l Toxicity to algae

Exposure time: 72 h

Method: OECD Test Guideline 201

Solvent naphtha (petroleum), light arom.:

Toxicity to fish LC50 (Fish): 9.2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 3.2 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Algae): 2.9 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

12.2 Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

**Product:** 

Stability in soil : Remarks: No data available

12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : This substance/mixture contains no components considered

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

**Product:** 

Additional ecological

information

: There is no data available for this product.

14 / 18

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

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

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty drum.

# **SECTION 14: Transport information**

#### 14.1 UN number

IMDG : UN 1263 IATA (Cargo) : UN 1263

14.2 UN proper shipping name

ADR : PAINT RELATED MATERIAL IMDG : PAINT RELATED MATERIAL

IATA (Cargo) : Paint related material

14.3 Transport hazard class(es)

 ADR
 : 3

 IMDG
 : 3

 IATA (Cargo)
 : 3

### 14.4 Packing group

**ADR** 

Packing group : III
Classification Code : F1
Hazard Identification Number : 30
Labels : 3

**IMDG** 

Packing group : III
Labels : 3
EmS Code : F-E, <u>S-E</u>

IATA (Cargo)

Packing instruction (cargo : 366

aircraft)

Packing instruction (LQ) : Y344
Packing group : III

Labels : Flammable Liquids

### 14.5 Environmental hazards

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

**ADR** 

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c FLAMMABLE LIQUIDS Quantity 1 Quantity 2 50,000 t 50,000 t

34 Petroleum products: (a) 2,500 t 25,000 t

gasolines and naphthas, (b) kerosenes (including jet

fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e)

alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in

points (a) to (d)

### Other regulations:

The product is classified and labelled in accordance with EC directives or respective national laws.

### 15.2 Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

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

### **Full text of H-Statements**

EUH066 : Repeated exposure may cause skin dryness or cracking.

H225 : Highly flammable liquid and vapour. H226 : Flammable liquid and vapour.

H304 : May be fatal if swallowed and enters airways.

H312 : Harmful in contact with skin. H315 : Causes skin irritation.

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version 2.1	Revision Date: 04.03.2019	SDS Number: H51231
H317		May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H332		Harmful if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H373	:	May cause damage to organs through prolonged or repeated exposure if inhaled.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Chronic aquatic toxicity
Asp. Tox. : Aspiration hazard
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first

list of indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT : UK. Biological monitoring guidance values

2000/39/EC / TWA : Limit Value - eight hours 2000/39/EC / STEL : Short term exposure limit

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship;

according to Regulation (EC) No. 1907/2006



### GTI 411-F

Version Revision Date: SDS Number: 2.1 04.03.2019 H51231

REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### **Further information**

Sources of key data used to compile the Safety Data

Sources of key data used to : http://echa.europa.eu, http://eur-lex.europa.eu

Sheet

#### Classification of the mixture:

### Classification procedure:

Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Based on product data or assessment
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Based on product data or assessment

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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