ZINGATARFREE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 05/10/2015 Revision date: 05/10/2015 : Version: 2.0

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

1.1. Product identifier

Product form : Mixture

Product name : ZINGATARFREE

Product group : Paint

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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Tel. : +32 (0)9 385 68 81
Fax. : +32 (0)9 385 58 69
E-mail : zingametall@zinga.be

1.4. Telefoonnummer voor noodgevallen

Noodnummer : +32(0)70/245.245 (B)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3	H226
Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
STOT SE 3	H335
STOT RE 2	H373
Aquatic Chronic 3	H412

Full text of H-phrases: see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02 GHS07 GHS08

Signal word (CLP) : Danger

Hazardous ingredients : TOLUEEN-2,4-DIISOCYANAAT, Arom. Polyisocyanate, SOLVENT-NAFTA (AARDOLIE), LICHT AROMATISCH, Oligomeric MDI : oligomeric reaction products of formaldehyde with aniline and phosgene

Hazard statements (CLP) : H226 - Flammable liquid and vapour
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P201 - Obtain special instructions before use
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves. Contact your supplier to choose the most suitable protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of 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

EUH phrases : EUH014 - Reacts violently with water
EUH204 - Contains isocyanates. May produce an allergic reaction

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
HYDROCARBONS, C9, aromatics	(CAS No) 64742-95-6 (EC no) 265-199-0 (EC index no) 649-356-00-4 (REACH-no) 01-2119455851-35	12,5 - 15	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Arom. Polyisocyanate	(CAS No) 147993-65-5 (EC no) 700-674-2	10 - 12,5	Acute Tox. 4 (Inhalation:vapour), H332 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 2, H411
Arom. Polyisocyanaat	(CAS No) 67815-87-6	5 - 10	Resp. Sens. 1, H334 Skin Sens. 1, H317
DIPHENYLMETHANE-4,4´-DIISOCYANATE, ISOMERES AND HOMOLOGUES	(CAS No) 9016-87-9 (EC index no) 615-005-01-6	2,5 - 5	Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Prepolymer based on aromatic polyisocyanate	(CAS No) 127821-00-5	2,5 - 5	Eye Irrit. 2, H319 Skin Sens. 1, H317
Xylene	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9 (REACH-no) 01-2119488216-32	2,5 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
Oligomeric MDI : oligomeric reaction products of formaldehyde with aniline and phosgene	(CAS No) 32055-14-4 (EC no) 500-079-6 (REACH-no) 01-2119457024-46	1 - 2,5	Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
4-ISOCYANATOSULPHONYLTOLUENE	(CAS No) 4083-64-1 (EC no) 223-810-8 (EC index no) 615-012-00-7	< 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335

Specific concentration limits:

Name	Product identifier	Specific concentration limits
4-ISOCYANATOSULPHONYLTOLUENE	(CAS No) 4083-64-1 (EC no) 223-810-8 (EC index no) 615-012-00-7	(C >= 5) Skin Irrit. 2, H315 (C >= 5) STOT SE 3, H335 (C >= 5) Eye Irrit. 2, H319

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide. Dry powder.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment : The spill should be cleaned up by a trained cleaning personnel, wearing respiratory and eye protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage with non-combustible absorbent material and transfer in container for disposal according to local/national regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid unnecessary exposure. Immediately remove product. No naked lights. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a well-ventilated place. When not in use, keep the container closed. Keep in fireproof place.

Incompatible materials : Heat sources. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Xylene (1330-20-7)		
EU	IOELV TWA (mg/m³)	221 mg/m³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m³)	442 mg/m³
EU	IOELV STEL (ppm)	100 ppm

Xylene (1330-20-7)		
EU	Notes	Skin

8.2. Exposure controls

Personal protective equipment : Safety glasses. Gloves. Insufficient ventilation: wear respiratory protection.

Hand protection : Wear protective gloves. Contact your supplier to choose the most suitable protective gloves.

Eye protection : Safety glasses

Respiratory protection : Wear appropriate mask



Environmental exposure controls : Try to avoid the material runs off in drains or watercourse. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers, lakes or drains inform the respective authorities.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: ≈ 25 °C
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1,57
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: > 7 cSt
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : < 290 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

In use may form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Prepolymer based on aromatic polyisocyanate (127821-00-5)	
LD50 oral rat	> 5000 mg/kg

Arom. Polyisocyanate (147993-65-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 inhalation rat (mg/l)	310 mg/m³

Xylene (1330-20-7)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

HYDROCARBONS, C9, aromatics (64742-95-6)	
LD50 oral rat	3592 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat (mg/l)	> 6193 mg/l/4h

4-ISOCYANATOSULPHONYLTOLUENE (4083-64-1)	
LD50 oral rat	2600 mg/kg

DIPHENYLMETHANE-4,4´-DIISOCYANATE, ISOMERES AND HOMOLOGUES (9016-87-9)	
LD50 dermal rabbit	> 9400 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Arom. Polyisocyanate (147993-65-5)	
LOAEL (inhalation,rat,vapour)	1 mg/l/4h
NOAEL (inhalation,rat,vapour)	0,2 mg/l/4h

DIPHENYLMETHANE-4,4´-DIISOCYANATE, ISOMERES AND HOMOLOGUES (9016-87-9)	
NOAEL (inhalation,rat,vapour)	0,2 mg/l/4h

Oligomeric MDI : oligomeric reaction products of formaldehyde with aniline and phosgene (32055-14-4)	
LOAEL (inhalation,rat,vapour)	1 mg/l/4h
NOAEL (inhalation,rat,vapour)	0,2 mg/l/4h

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure .

Aspiration hazard : Not classified

ZINGATARFREE	
Viscosity, kinematic	> 7 mm²/s

SECTION 12: Ecological information

12.1. Toxicity

Prepolymer based on aromatic polyisocyanate (127821-00-5)	
LC50 fishes 1	> 100 ml/l

Arom. Polyisocyanate (147993-65-5)	
LC50 fishes 1	> 100 mg/l 96u
EC50 Daphnia 1	2 mg/l 48u
EC50 other aquatic organisms 1	> 10000 mg/l

Arom. Polyisocyanate (147993-65-5)	
ErC50 (algae)	> 100 mg/l 72u

Xylene (1330-20-7)	
LC50 fishes 1	13,5 mg/l 96u
EC50 Daphnia 1	3,82 mg/l 48u

HYDROCARBONS, C9, aromatics (64742-95-6)	
LC50 fishes 1	9,22 mg/l 96u
EC50 Daphnia 1	6,14 mg/l 48u
EC50 other aquatic organisms 1	1 - 10 mg/l
ErC50 (algae)	19 mg/l 96u
DIPHENYLMETHANE-4,4´-DIISOCYANATE, ISOMERES AND HOMOLOGUES (9016-87-9)	
EC50 other aquatic organisms 1	> 100 mg/l
NOEC (chronic)	mg/l
NOEC chronic crustacea	> 10 mg/l 21d

Oligomeric MDI : oligomeric reaction products of formaldehyde with aniline and phosgene (32055-14-4)	
EC50 other aquatic organisms 1	> 100 mg/l
NOEC chronic crustacea	> 10 mg/l

12.2. Persistence and degradability

ZINGATARFREE	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

ZINGATARFREE	
Bioaccumulative potential	Not established.

Arom. Polyisocyanate (147993-65-5)	
Log Pow	7,74 @20°C

Xylene (1330-20-7)	
Log Pow	3,15
DIPHENYLMETHANE-4,4´-DIISOCYANATE, ISOMERES AND HOMOLOGUES (9016-87-9)	
BCF fish 1	< 14 mg/kg 42d

Oligomeric MDI : oligomeric reaction products of formaldehyde with aniline and phosgene (32055-14-4)	
BCF fish 1	200 mg/kg 28d

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container to a special collecting point in accordance with local legislation.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1263

UN-No. (IMDG) : 1263

UN-No.(IATA) : 1263

UN-No.(ADN) : Not applicable

UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : PAINT / PAINT RELATED MATERIAL

Proper Shipping Name (IMDG) : PAINT RELATED MATERIAL

Proper Shipping Name (IATA) : PAINT RELATED MATERIAL

Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable
Transport document description (ADR) : UN 1263 PAINT / PAINT RELATED MATERIAL, 3, III, (D/E)
Transport document description (IMDG) : UN 1263 PAINT RELATED MATERIAL, 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3

:



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3

:



IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3

:



ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1
Special provision (ADR) : 163, 640E, 650
Limited quantities (ADR) : 5L
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR)	:	PP1
Mixed packing provisions (ADR)	:	MP19
Mixed Portable tank and bulk container instructions (ADR)	:	T2
Mixed Portable tank and bulk container special provisions (ADR)	:	TP1, TP29
ADR tank codes (ADR)	:	LGBF
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V12
Special provisions for carriage - Operation (ADR)	:	S2
Hazard identification number (Kemler No.)	:	30
Orange plates	:	
Tunnel restriction code (ADR)	:	D/E

- Transport by sea

Special provision (IMDG)	:	163, 223, 955
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	P001, LP01
Packing provisions (IMDG)	:	PP1
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T2
Tank special provisions (IMDG)	:	TP1, TP29
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-E
Stowage category (IMDG)	:	A

- Air transport

PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y344
PCA limited quantity max net quantity (IATA)	:	10L
PCA packing instructions (IATA)	:	355
PCA max net quantity (IATA)	:	60L
CAO packing instructions (IATA)	:	366
CAO max net quantity (IATA)	:	220L
Special provision (IATA)	:	A3, A72, A192
ERG code (IATA)	:	3L

- Inland waterway transport

Not subjected to ADN	:	No

- Rail transport

Carriage prohibited (RID)	:	No

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Authorisations and/or restrictions on use (Annex XVII):

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Prepolymer based on aromatic polyisocyanate - Arom. Polyisocyanate - Xylene - HYDROCARBONS, C9, aromatics - 4-ISOCYANATOSULPHONYLTOLUENE - Arom. Polyisocyanaat - DIPHENYLMETHANE-4,4´-DIISOCYANATE, ISOMERES AND HOMOLOGUES - Oligomeric MDI : oligomeric reaction products of formaldehyde with aniline and phosgene
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Xylene - HYDROCARBONS, C9, aromatics

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

VOC content : < 290 g/l

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixturejs, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
EUH014	Reacts violently with water

EUH204	Contains isocyanates. May produce an allergic reaction

SDS EU (REACH Annex II)

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