Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II / Regulation (EU) No. 2015/830.

- United Kingdom (UK)

Date of issue/ Date of revision : 26.01.2017
Date of previous issue : 13.12.2013

Version : 2.0



# SAFETY DATA SHEET

#### **Urea U-Tech Untreated Technical Grade**

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

#### 1.1 Product identifier

Product name : Urea U-Tech Untreated Technical Grade

**EC number** : 200-315-5

**REACH Registration number** : 01-2119463277-33

CAS number : 57-13-6
Product code : PA387P
Product type : Solid
Chemical formula : CH4N2O

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

Notes : The safety data sheet and any attached exposure scenario

are compiled in accordance with the REACH regulation and in no way reflects the specification, purity or quality

standards required for specific applications and use of the

product identified in section 1.1.

#### **Identified uses**

Industrial distribution.

Industrial USE to formulate chemical product mixtures.

Industrial Use for flue gas NOx and SOx reduction.

Industrial USE as chemical intermediate.

Industrial USE as reactive agent/processing aid and for general chemical applications.

Industrial USE as chemical/process nutrient.

Industrial USE for surface/article treatment.

Industrial USE to manufacture specialist chemical/other products.

Industrial USE as part of specialist chemicals/other products.

Professional formulation of mixtures.

Professional USE as chemical/process nutrient.

Professional USE as reactive agent/processing aid and for general chemical applications.

Professional USE as a laboratory/research chemical.

Professional USE for surface/article treatment.

Professional USE as part of specialist chemicals/other products.

Industrial USE in manufacture of paper products.

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Industrial USE as a laboratory/research chemical.

Professional distribution.

Uses advised against None identified.

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

Yara Industrial

Address

Street Harvest House, Europarc

Postal code **DN37 9TZ** 

Grimsby, North East Lincolnshire City

United Kingdom Country Telephone number +44 (0) 1472 889250 Fax no. +44 (0) 1472 889251 e-mail address of person yarauk.hesq@yara.com

responsible for this SDS

#### 1.4 Emergency telephone number

National advisory body/Poison Not available.

Center

Supplier

Telephone number National Chemical Emergency Centre

+44 (0) 1865 407333

Hours of operation 24h

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

2.1 Classification of the substance or mixture

**Product definition** Mono-constituent substance

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

Classification Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Signal word No signal word.

**Hazard statements** Not applicable.

**Precautionary statements** 

General Not applicable.

EU Regulation (EC) No.

1907/2006 (REACH) Annex XVII

- Restrictions on the

manufacture, placing on the

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Not applicable.

market and use of certain dangerous substances, mixtures and articles

#### **Special packaging requirements**

Containers to be fitted with child-resistant fastenings
Tactile warning of danger

Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Substance meets the criteria

for PBT according to

Regulation (EC) No. 1907/2006,

Annex XIII

Substance meets the criteria

for vPvB according to

Regulation (EC) No. 1907/2006,

**Annex XIII** 

Other hazards which do not

result in classification

Not applicable.

Not applicable.

Product forms slippery surface when combined with water.

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

3.1 Substances : Mono-constituent substance

Product / ingredient	Identifiers	%	<u>Classification</u>	Type
name	identifiers	70	Regulation (EC) No. 1272/2008 [CLP]	Туре
urea	RRN:	>= 90 -		[A]
	01-2119463277-	< 100		
	33			
	EC:			
	200-315-5			
	CAS:			
	57-13-6			

<u>Type</u>

[A] Constituent

[B] Impurity

[C] Stabilizing additive

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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

#### 4.1 Description of first aid measures

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#### **Urea U-Tech Untreated Technical Grade**

**Eye contact** : Rinse with plenty of running water. Check for and remove any

contact lenses. Get medical attention if irritation occurs.

Inhalation : If inhaled, remove to fresh air. In case of inhalation of

decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance

for 48 hours.

**Skin contact**: Wash with soap and water. Get medical attention if irritation

develops.

**Ingestion**: Wash out mouth with water. If material has been swallowed and

the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health

effects persist or are severe.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training.

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

Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

**Inhalation** : Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

**Skin contact**: No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept

under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

# **SECTION 5: Firefighting measures**

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#### 5.1 Extinguishing media

**Suitable extinguishing media**: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

None identified.

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

Hazards from the substance or

mixture

No specific fire or explosion hazard.

Hazardous thermal decomposition products

Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides ammonia

Avoid breathing dusts, vapors or fumes from burning

materials.

In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

#### **5.3** Advice for firefighters

Special precautions for fire-

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic

level of protection for chemical incidents.

Additional information : None.

#### SECTION 6: Accidental release measures

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

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency

personnel".

**6.2 - Environmental** : Avoid dispersal of spilled material and runoff and contact with

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#### precautions

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and material for containment and cleaning up

Small spill

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

<u>6.4 Reference to other sections</u>

See Section 1 for emergency contact information.
 See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Recommendations

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Use appropriate containment to avoid environmental

contamination.

7.3 Specific end use(s)

**Recommendations** : Not available.

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Industrial sector specific solutions

Not available.

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

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

Remark

#### Occupational exposure limits

Recommended monitoring procedures

No exposure limit value known.

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Reference should be made to monitoring standards, such as the following:

following:

European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)

European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of averaging and biological agents)

exposure to chemical and biological agents)

European Standard EN 482 (Workplace atmospheres - General

requirements for the performance of procedures for the

measurement of chemical agents)

Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product / ingredient name	Туре	Exposure	Value	Population	Effects
urea	DNEL	Short term Dermal	580 mg/kg bw/day	Workers	Systemic
urea	DNEL	Short term Inhalation	292 mg/m³	Workers	Systemic
urea	DNEL	Long term Dermal	580 mg/kg bw/day	Workers	Systemic
urea	DNEL	Long term Inhalation	292 mg/m³	Workers	Systemic

#### **PNECs**

Product / ingredient name	Туре	Compartment Detail	Value	Method Detail
urea	PNEC	Fresh water	0.047 mg/l	Assessment Factors

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urea	PNEC	Salt water	0.047 mg/l	Not applicable.	
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#### **8.2** Exposure controls

# Appropriate engineering controls

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing. A washing facility or water for eye and skin cleaning purposes should be present.

#### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

# Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.

#### **Body protection**

 Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

#### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

: In case of inadequate ventilation wear respiratory protection.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

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

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**Appearance** 

Physical state : Solid
Color : White.
Odor : Odorless.
Odor threshold : Not determined.

**pH** : 7.2 [Conc. (% w/w): 100 g/l]

Melting point/freezing point : 134 °C

Initial boiling point and boiling

range

Not determined

Flash point : Not applicable

**Evaporation rate** : Not determined **Flammability (solid, gas)** : Non-flammable.

**Upper/lower flammability or** 

explosive limits
Vapor pressure

Lower: Not determined Upper: Not determined 0.000016 hPa @ 20 °C

Vapor density: Not determinedRelative density: Not determinedBulk density: Not determinedDensity: 1.33 g/cm3

**Solubility(ies)** : Easily soluble in the following materials:

cold water

Water solubility : > 100 g/l

Partition coefficient: n-

octanol/water

Not determined

Auto-ignition temperature : Not determined

Viscosity : Dynamic: Not determined
Kinematic: Not determined

**Explosive properties** : None. **Oxidizing properties** : None.

**9.2 Other information**No additional information.

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

**10.1 Reactivity** : No specific test data related to reactivity available for this

product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous

reactions will not occur.

**10.4 Conditions to avoid** : Avoid contamination by any source including metals, dust

and organic materials.

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#### **Urea U-Tech Untreated Technical Grade**

10.5 Incompatible materials : Urea reacts with calcium hypochlorite or sodium

hypochlorite to form the explosive nitrogen trichloride.

Remark : acids

alkalis

Nitrites and nitrates

10.6 Hazardous

decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product / ingredient name	Result	Species	Dose	Exposure	References
urea					
	LD50 Oral	Rat	14,300 mg/kg OECD 401	Not applicable.	IUCLID 5

**Conclusion/Summary** : No known significant effects or critical hazards.

#### Irritation/Corrosion

Conclusion/Summary

Skin
 Eyes
 No known significant effects or critical hazards.
 Respiratory
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### **Sensitization**

**Conclusion/Summary** 

**Skin** : No known significant effects or critical hazards. Respiratory : No known significant effects or critical hazards.

#### **Mutagenicity**

**Conclusion/Summary**: No known significant effects or critical hazards.

#### **Carcinogenicity**

Product / ingredient name	Result	Species	Dose	Exposure	References
urea	Negative - Oral - NOAEL	Rat	2,250 mg/kg	7 days per week	IUCLID 5

**Conclusion/Summary**: No known significant effects or critical hazards.

#### Reproductive toxicity

Product / ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure	References
urea	Not	Not	Negative	Rat	Oral : 500	7 days	IUCLID 5

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applicabl	applicabl		mg/kg	per week	l
e.	e.				l

**Conclusion/Summary** : No known significant effects or critical hazards.

**Teratogenicity** 

**Conclusion/Summary**: No known significant effects or critical hazards.

Information on the likely routes of exposure

No known significant effects or critical hazards.

Potential acute health effects

**Inhalation** : Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following

exposure.

**Ingestion**: No known significant effects or critical hazards.

**Skin contact**: No known significant effects or critical hazards.

**Eye contact** : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation** : No specific data.

**Ingestion** : No specific data.

**Skin contact** : No specific data.

**Eye contact** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

**Potential immediate effects**: No known significant effects or critical hazards.

**Potential delayed effects**: No known significant effects or critical hazards.

Long term exposure

**Potential immediate effects**: No known significant effects or critical hazards.

**Potential delayed effects**: No known significant effects or critical hazards.

#### Potential chronic health effects

Product / ingredient name	Result	Species	Dose	Exposure	References
urea	Chronic NOAEL Oral	Rat	2,250 mg/kg	12 months 7 days per week	IUCLID 5

**Conclusion/Summary**: No known significant effects or critical hazards.

**General**: No known significant effects or critical hazards.

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**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity**: No known significant effects or critical hazards.

**Teratogenicity**: No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects**: No known significant effects or critical hazards.

**Toxicokinetics** 

Absorption : Rapidly absorbed.

Distribution :

Not metabolized within liver tissues before entering the

systemic circulation.

**Metabolism** : Metabolite is not known to be toxic.

Elimination : The chemical and its metabolites are fully excreted and do

not accumulate within the body.

# **SECTION 12: Ecological information**

#### **12.1 Toxicity**

Product / ingredient name	Result	Species	Exposure	References
urea				
	Acute LC50 6,810 mg/l Fresh water	Fish	96 h	IUCLID 5
	Acute EC50 10,000 mg/l Fresh water	Water flea	24 h	IUCLID 5
	Chronic No- observable- effect- concentration 47 mg/l Fresh water	Algae	192 h	IUCLID 5

**Conclusion/Summary**: No known significant effects or critical hazards.

#### 12.2 Persistence and degradability

Product / ingredient name	Test	Result	Dose	Inoculum	References
urea	302B Inherent Biodegradabilit y: Zahn- Wellens/EMPA Test	96 % - Inherently biodegradable - 16 d	mg/l	Activated sludge	IUCLID

**Conclusion/Summary**: No known significant effects or critical hazards.

#### 12.3 Bioaccumulative potential

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Product / ingredient name	LogPow	BCF	Potential
urea	1.73	Not applicable.	low

**Conclusion/Summary**: No known significant effects or critical hazards.

12.4 Mobility in soil

Soil/water partition coefficient

(KOC)

: Not available.

**Mobility** : This product may move with surface or groundwater flows

because its water solubility is: high

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

<u>12.6 Other adverse effects</u>: No known significant effects or critical hazards.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

**Product** 

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### European waste catalogue (EWC)

Waste code	Waste designation
06 10 99	wastes not otherwise specified

Packaging

**Methods of disposal** : The generation of waste should be avoided or minimized

wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when

recycling is not feasible.

Special precautions : This material and its container must be disposed of in a

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safe way.

Empty containers or liners may retain some product residues.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

Regulation: ADR/RID	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	

Regulation: ADN	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
Danger code	: Not applicable.

Regulation: IMDG	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information	
Marine pollutant	: No.

Regulation: IATA	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
Additional information  Marine pollutant : No.	

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14.6 Special precautions for

user

Transport within user's premises: Ensure that persons transporting the product know what to do in the event of

an accident or spillage.

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

Not applicable.

**14.8 IMSBC** 

Bulk cargo shipping name : UREA

Class : Not applicable.

Group : (

Marpol V : Non-HME

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

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

Not applicable.

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

**Annex XIV:** None of the components are listed.

<u>Substances of very high concern</u>: None of the components are listed.

EU Regulation (EC) No.

1907/2006 (REACH) Annex XVII

- Restrictions on the

manufacture, placing on the market and use of certain

dangerous substances,

mixtures and articles

Other EU regulations

**Europe inventory** : All components are listed or exempted.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**National regulations** 

Notes : To our knowledge no other country or state specific

regulations are applicable.

**15.2 Chemical Safety** : This product contains substances for which Chemical

Assessment Safety Assessments are still required.

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

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation

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[Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative

bw = Body weight

Key literature references and sources for data

EU REACH IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical

Substances.

IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9,

Canada.

Regulation (EC) No 1272/2008 Annex VI.

# <u>Procedure used to derive the classification according to Regulation (EC) No. 1272/2008</u> [CLP/GHS]

Classification	Justification
Not classified.	Calculation method

Full text of abbreviated H

statements

Not applicable.

Full text of classifications

[CLP/GHS]

Not applicable.

Revision comments : The safety data sheet has been revised according to

Commission Regulation (EU) 2015/830.

Date of printing: 06.02.2017Date of issue/ Date of revision: 26.01.2017Date of previous issue: 13.12.2013

Version : 2.0

Prepared by : Yara Chemical Compliance (YCC).

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.

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