	ADAMA U.K.	Revision nr. 1 Dated 03/12/2020
ADAMA		First compilation
	0302445B - GUSTO 3	Printed on 03/12/2020 Page n. 1/16

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

0302445B Code: Product name **GUSTO 3**

Chemical name and synonym Metaldehyde (3%) - Denatonium benzoate (0.03%).

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

Intended use Antiparasitic.

Identified Uses	Industrial	Professional	Consumer
Consumer uses: Private households (= general public = consumers)	-	-	✓
Professional uses: Public domain (administration, education, entertainment, services, craftsmen)	-	✓	-
1.3. Details of the supplier of the safety data shee			
Name	Adama Agricultural Solution		
Full address	Third Floor East, 1410 Arlin	gton Business Park	
District and Country	Theale - READING RG7 4SA	1	
-	United Kindom		
	tel 01635 860555		

fax 01635 861555 e-mail address of the competent person

ukenquiries@adama.com

1.4. Emergency telephone number

responsible for the Safety Data Sheet

- Chemical Emergency Centre (UK) - Tel. 01865 407333 (24 hours) For urgent inquiries refer to - National Poisons Information Centre (Republic of Ireland

Tel: 01 809 2166 (8am - 10pm 7 days a week)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

ADAMA U.K. Revision nr. 1 Dated 03/12/2020 First compilation Printed on 03/12/2020 Page n. 2/16

Hazard classification and indication: Reproductive toxicity, category 2 Serious eye damage, category 1

H361f H318 Suspected of damaging fertility. Causes serious eye damage.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





Signal words: Danger

Hazard statements:

H361f Suspected of damaging fertility. H318 Causes serious eye damage.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements:

P102 Keep out of reach of children.
P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER / doctor / . . .

P405 Store locked up.

Contains: METALDEHYDE

CALCIUM HYDROXIDE

SP1 Do not contaminate water with the product or its container.

Do not clean the operating equipment near surface water.

Prevent contamination of farms and roads by draining water.

SPe6 To protect wild birds and mammals, collect all accidental spills.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

Vapours may glow and form expolsive mixtures with air.

	ADAMA U.K.	Revision nr. 1 Dated 03/12/2020
ADAMA		First compilation
	0302445B - GUSTO 3	Printed on 03/12/2020 Page n. 3/16

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

CALCIUM HYDROXIDE

CAS 1305-62-0 3 ≤ x < 5 Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335

EC 215-137-3

INDEX -

Reg. no. 01-2119475151-45

METALDEHYDE

CAS 108-62-3 $3 \le x < 5$ Flam. Sol. 2 H228, Repr. 2 H361f, Acute Tox. 3 H301, Aquatic Chronic 3

H412

EC 203-600-2

INDEX 605-005-00-7

Reg. no. 01-2120769329-40-XXXX

SALICYLIC ACID

CAS 69-72-7 $0 \le x < 0.5$ Acute Tox. 4 H302, Eye Dam. 1 H318

EC 200-712-3 INDEX -

Reg. no. 01-2119486984-17

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

	ADAMA U.K.	Revision nr. 1 Dated 03/12/2020
ADAMA		First compilation
	0302445B - GUSTO 3	Printed on 03/12/2020 Page n. 4/16

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

Consult a doctor.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

In case of fire, toxic gases can develop, such as nitrogen oxides (NOx), Carbon monoxide (CO), Formaldehyde. HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

	ADAMA U.K.	Revision nr. 1 Dated 03/12/2020
ADAMA		First compilation
	0302445B - GUSTO 3	Printed on 03/12/2020 Page n. 5/16

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

The product is sensitive to heat, should not be stored above 30°C [CIPAC MT 46].

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

ITA DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017 RCP TLV

ACGIH TLVs and BEIs -

Appendix H

Country	TWA/8h		STEL/15min		Remarks / Observatio	ns	
	mg/m3	ppm	mg/m3	ppm			
ITA	1		4		RESP		
- PNEC							
			0,49	mg/	1		
			0,32	mg/	1		
nt release			0,49	mg/	1		
sms			3	mg/	1		
mpartment			1080	mg/	kg		
evel - DNEL / [DMEL						
Effects on consumers				Effects on workers			
Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
4 mg/m3		1 mg/m3	,	4 mg/m3	,	1 mg/m3	.
Country	TWA/8h		STEL/15min		Remarks /		
r	ITA - PNEC Int release Sms Impartment Sevel - DNEL / I Effects on consumers Acute local 4 mg/m3	mg/m3 ITA 1 - PNEC Int release sms Impartment Evel - DNEL / DMEL Effects on consumers Acute local Acute systemic 4 mg/m3	mg/m3 ppm ITA 1 - PNEC Int release sms Impartment sevel - DNEL / DMEL Effects on consumers Acute local Acute systemic Chronic local 4 mg/m3 1 mg/m3	mg/m3 ppm mg/m3 ITA	mg/m3 ppm mg/m3 ppm ppm	March Marc	Mg/m3 ppm mg/m3 ppm ppm mg/m3 mg

Observations



ADAMA U.K.

Revision nr. 1

Dated 03/12/2020

First compilation

Printed on 03/12/2020

Page n. 6/16

0302445B - GUSTO 3

 mg/m3
 ppm
 mg/m3
 ppm

 RCP TLV
 17,5
 17,5

SALICYLIC ACID			
Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,2	mg/l	
Normal value in marine water	0,02	mg/l	
Normal value for fresh water sediment	1,42	mg/kg	
Normal value for marine water sediment	0,14	mg/kg	
Normal value for water, intermittent release	1	mg/l	
Normal value of STP microorganisms	162	mg/l	
Normal value for the terrestrial compartment	0,16	mg/kg	

Health - Derived no-eff	fect level - DNEL / D	MEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral		4 mg/kg/d		1 mg/kg/d				
Inhalation			0,2 mg/m3	4 mg/kg				5 mg/m3
Skin				1 mg/kg/d				2,3 mg/kg/d

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

- METĂLDEHYDE

Material: nitrile rubber.

Break through time: > 480 min.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

	ADAMA U.K.	Revision nr. 1 Dated 03/12/2020
ADAMA		First compilation
	0302445B - GUSTO 3	Printed on 03/12/2020 Page n. 7/16

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

- METALDEHYDE

In the case of dust or aerosol formation use respirator with an approved filter.

Half mask with a particle filter P2 (EN 143).

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance solid Colour blue

Odour Slightly acrid
Odour threshold Not available

pH 10,0 - 11,0 (1% aqueous dispersion) [CIPAC MT 75.3]

Melting point / freezing point

Initial boiling point

Not available

Boiling range

Not available

Flash point

Not available

Evaporation Rate

Not available

Flammability of solids and gases Not flammable [EEC A10]

Lower inflammability limit
Upper inflammability limit
Not available
Lower explosive limit
Not available
Upper explosive limit
Not available
Vapour pressure
Not available
Vapour density
Not available

Relative density 0,67 - 0,73 (pour) [CIPAC 159]

Solubility Hydroleakable
Partition coefficient: n-octanol/water Not available

Auto-ignition temperature Not flammable [EEC A10]

Decomposition temperature Not available
Viscosity Not available
Explosive properties Not explosive
Oxidising properties Not oxidant

9.2. Other information

Information not available

	ADAMA U.K.	Revision nr. 1 Dated 03/12/2020
ADAMA		First compilation
	0302445B - GUSTO 3	Printed on 03/12/2020 Page n. 8/16

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

CALCIUM HYDROXIDE

In water, Ca(OH)₂ dissociates, causing the formation of calcium cations and hydroxyl anions (if it is below the limit of solubility in water).

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

CALCIUM HYDROXIDE

Calcium hydroxide reacts exothermically with acids.

When heated above 580 °C, calcium hydroxide dissociates producing calcium oxide (CaO) and water (H_2O): Ca(OH)₂ \rightarrow CaO + H_2O .

Calcium oxide reacts with water and generates heat.

This represents a risk for flammable materials.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

METALDEHYDE

Heat, flames and sparks.

CALCIUM HYDROXIDE

Minimize exposure to air and moisture to prevent deterioration.

10.5. Incompatible materials

Strong oxidizing agents and strong reducing agents.

METALDEHYDE

Strong acids and strong bases.

Oxidizing agents.

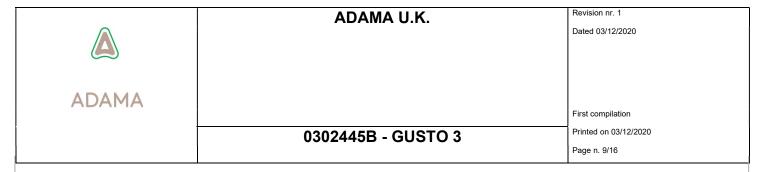
CALCIUM HYDROXIDE

Calcium hydroxide reacts exothermically with acids to form salts.

Calcium hydroxide reacts with aluminum and brass in the presence of moisture and produces hydrogen: Ca(OH)₂ + 2 Al + 6 H₂O → Ca[Al(OH)₄]₂ + 3 H₂.

10.6. Hazardous decomposition products

By thermal decomposition or in the event of fire, gases and vapors that are potentially harmful to health can be released: Nitrogen oxides (NOx), Carbon monoxide (CO), Formaldehyde.



SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: Not classified (no significant component) LD50 (Oral, rat) of the mixture: > 2000 mg/kg [OECD 423]

LD50 (Dermal, rat) of the mixture: >2000 mg/kg [OECD 402 B.3 - OPPTS 870.1200]

SALICYLIC ACID

LD50 (Oral) 891 mg/kg Male rat

LD50 (Dermal) > 2000 mg/kg Rabbit

LC50 (Inhalation) > 0,9 mg/l/1h Rat

CALCIUM HYDROXIDE

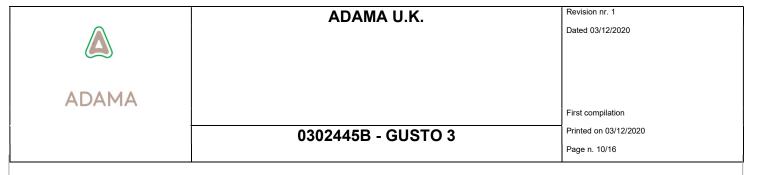
LD50 (Oral) > 2000 mg/kg Female rat

LD50 (Dermal) > 2500 mg/kg Rabbit

METALDEHYDE

LD50 (Oral) 283 mg/kg Rat [OECD Test Guideline 401]

LD50 (Dermal) > 5000 mg/kg Rat [OECD Test Guideline 402]



SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

METALDEHYDE

Not irritant - rabbit [OECD Test Guideline 404 - exposition time: 4 h]

CALCIUM HYDROXIDE

Hydroxide kick is irritating to the skin (live, rabbit).

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

METALDEHYDE

Slightly irritant - rabbit [OECD Test Guidline 405]

CALCIUM HYDROXIDE

Poses a risk of serious eye damage (eye irritation studies (in vivo, rabbit)).

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

METALDEHYDE

Not sensitizing - mouse [OECD 429]; Guinea pig [OECD 406]

Respiratory sensitization

CALCIUM HYDROXIDE

Human data concluded that Ca (OH)₂ is irritating to the respiratory tract.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

METALDEHYDE

Not mutagenic - Salmonella typhimurium (in vitro) [OECD 471]; mouse (in vivo) [OECD 474]

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ADAMA U.K. Revision nr. 1 Dated 03/12/2020 First compilation Printed on 03/12/2020 Page n. 11/16

METALDEHYDE

Not carcinogenic - oral, mouse, exposition time: 540 d [OECD Test Guideline 451] Not carcinogenic - oral, mouse, exposition time: 728 d [OECD Test Guideline 453]

REPRODUCTIVE TOXICITY

Suspected of damaging fertility

METALDEHYDE

Not toxic - rat, dietary [OECD 415]

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organ

METALDEHYDE

NOAEL: >1000 mg/kg bw/day (skin, rabbit, exposition time: 21 d);

number of exposures: 6 hours/day, 5 days/week, Dose: 100 - 300 - 1000 MG/KG/TAG [US-EPA]]

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

To avoid risks to human health and the environment, comply with the instructions for use.

12.1. Toxicity

SALICYLIC ACID

LC50 - for Fish 90 mg/l/96h Leuciscus idus melanotus

EC50 - for Crustacea 870 mg/l/48h Daphnia magna

CALCIUM HYDROXIDE

LC50 - for Fish 457 mg/l/96h Gasterosteus aculeatus
EC50 - for Crustacea 158 mg/l/48h Crangon septemspinosa

EC50 - for Algae / Aquatic Plants 184,57 mg/l/72h Pseudokirchneriella subcapitata

ADAMA ADAMA ADAMA ADAMA First compilation Printed on 03/12/2020 Page n. 12/16

METALDEHYDE

LC50 - for Fish 75 mg/l/96h Oncorhynchus mykiss [OECD TG 203]

EC50 - for Crustacea > 100 mg/l/48h Daphnia magna [OECD TG 202]

EC50 - for Algae / Aquatic Plants > 200 mg/l/72h Desmodesmus subspicatus [OECD Test Guideline 201]

Chronic NOEC for Fish > 25 mg/l Danio rerio - 35 h [OECD TG 210]

Chronic NOEC for Crustacea > 98 mg/l Daphnia magna - 21 d [OECD TG 211]

Chronic NOEC for Algae / Aquatic Plants 25 mg/l

12.2. Persistence and degradability

SALICYLIC ACID

Solubility in water 2000 mg/l (20 °C)

Entirely degradable

CALCIUM HYDROXIDE

Solubility in water 1184 mg/l

METALDEHYDE

NOT rapidly degradable 28 d [OECD 301F]

12.3. Bioaccumulative potential

SALICYLIC ACID

Partition coefficient: n-octanol/water 2

METALDEHYDE

Partition coefficient: n-octanol/water 0,12 (pH = 6,7 @ 20 °C) [OECD TG 107]

BCF 11 Lepomis macrochirus - 28 d [OECD Test Guideline 305]

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

	ADAMA U.K.	Revision nr. 1 Dated 03/12/2020
ADAMA	0302445B - GUSTO 3	First compilation Printed on 03/12/2020 Page n. 13/16

SECTION 13. Disposal considerations
13.1. Waste treatment methods
Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.
SECTION 14. Transport information
The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.
14.1. UN number
Not applicable
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
Not applicable

	ADAMA U.K.	Revision nr. 1 Dated 03/12/2020
ADAMA		First compilation
	0302445B - GUSTO 3	Printed on 03/12/2020 Page n. 14/16

14.6. Special precautions for user

Not applicable

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point

40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

	ADAMA U.K.	Revision nr. 1 Dated 03/12/2020
ADAMA		First compilation
	0302445B - GUSTO 3	Printed on 03/12/2020 Page n. 15/16

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Sol. 2 Flammable solid, category 2

Repr. 2 Reproductive toxicity, category 2

Acute Tox. 3 Acute toxicity, category 3

Acute Tox. 4 Acute toxicity, category 4

Eye Dam. 1 Serious eye damage, category 1

Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H228 Flammable solid.

H361f Suspected of damaging fertility.

H301 Toxic if swallowed.H302 Harmful if swallowed.

H318 Causes serious eye damage.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, comply with the instructions for

use.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train

	ADAMA U.K.	Revision nr. 1 Dated 03/12/2020
ADAMA		First compilation
	0302445B - GUSTO 3	Printed on 03/12/2020 Page n. 16/16

- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
 The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.