# PRODUCT SAFETY DATA SHEET



## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1 Product identifier

CILLIT BANG Power Cleaner Limescale & Shine Contains Formic Acid, Sulphamic Acid, Alcohol C9 - C11, Ethoxylated

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

General purpose cleaner

1.3. Details of the Supplier of the Safety Data Sheet

The United Kingdom:

RB UK Hygiene Home Commercial Ltd

Wellcroft House

Wellcroft Road

Berkshire SL1 4AQ

Slough

1.4 Emergency telephone number

Only available during the following office hours: 09:00 - 17:00 weekdays

Citywest Business Campus Dublin 24

RB Ireland Hygiene Home Commercial Ltd

The Republic Of Ireland:

7 Riverwalk

Ireland

UK Contact Telephone: 0845 769 7079 ROI Contact Telephone: 01 661 7318

Contact Email: consumer.relations-ukroi@rb.com

**Revision Date:** Revision Replacing

1545943603 13 Jun 2012 1 December 2014

1545943604

RB Ref No:

Revisions: CLP classification added

Additional useful information

Product Format: Plastic bottle fitted with non-removeable trigger spray

 $(i)_0$ 

**UN Transport Code** UN: 1760 Class & Packing Group

Proper Shipping Name Corrosive Liquid, n.o.s. (Sulphamic Acid, Formic Acid)

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## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Met. Corr. 1, H290 Skin Irrit. 2, H315 Eye Dam. 1, H318

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R41, R38

Human health hazards : Risk of serious damage to eyes. Irritating to skin.

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

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : May be corrosive to metals.

Causes serious eye damage. Causes skin irritation.

Precautionary statements

General : Keep out of reach of children. If medical advice is needed, have product container

or label at hand.

Prevention : Wear protective gloves and eye protection. Keep only in original container.

Response : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get

medical attention/advice.

Storage : Store in corrosive resistant container with a resistant inner liner.

Disposal : Not applicable.

Hazard symbol or symbols



Indication of danger : Irrita

Risk phrases : R41- Risk of serious damage to eyes.

R38- Irritating to skin.

Safety phrases : S2- Keep out of the reach of children.

S24/25- Avoid contact with skin and eyes.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S28- After contact with skin, wash immediately with plenty of water. S35- This material and its container must be disposed of in a safe way.

S39- Wear eye/face protection.

S46- If swallowed, seek medical advice immediately and show this container or

label.

S50- Do not mix with chlorine-based bleaching agents

S51- Use only in well-ventilated areas.

Hazardous ingredients

(DPD)

: Formic acid Sulphamic acid

Alkyl(C9-11) alcohol ethoxylated



Hazardous ingredients

(CLP)

: Formic acid.; sulphamidic acid; Alcohols, C9-11, ethoxylated

Supplemental label elements (DPD) : For sensitive skin, the use of gloves is recommended.

Supplemental label elements (CLP) : Not applicable.

Special packaging requirements

Containers to be fitted

: Not applicable.

with child-resistant

fastenings

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.



## **SECTION 3: Composition/Information on Ingredients**

#### Substance/mixture : Mixture

			<u>Classification</u>		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
sulphamidic acid	EC: 226-218-8 CAS: 5329-14-6 Index: 016-026-00-0	5 - 10	Xi; R36/38 R52/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	[1]
formic acid	EC: 200-579-1 CAS: 64-18-6 Index: 607-001-00-0	< 2.5	C; R35	Skin Corr. 1A, H314 Eye Dam. 1, H318	[1] [2]
Alcohols, C9-11, ethoxylated	CAS: 68439-46-3	< 2.5	Xn; R22 Xi; R41	Acute Tox. 4, H302 Eye Dam. 1, H318	[1]
Ethanedioic acid, hydrate (1:2)	EC: 205-634-3 CAS: 6153-56-6 Index: 607-006-00-8	< 2.5	Xn; R21/22	Acute Tox. 4, H302 Acute Tox. 4, H312	ro
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

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

Annex XIV - List of substances subject to authorization

#### Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2008, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII [5] Substance of equivalent concern

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



## **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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

: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

## Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system. Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Skin contact : Causes skin irritation.

Ingestion : May cause burns to mouth, throat and stomach.



## Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

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

Notes to physician : 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**

5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

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

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

#### 5.3 Advice for firefighters

Special protective actions 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.

## **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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised 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 precautions

: Avoid dispersal of spilled material and runoff and contact with 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 materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

: 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). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

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

Storage

: 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. Store in corrosive resistant container with a resistant inner liner. Store locked up. 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

Toilet bowl cleaner
 Consumer uses
 Not available.

Industrial sector specific

solutions



## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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).

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values	
Europe		
	EU OEL (Europe, 12/2009). Notes: list of indicative occupational exposure limit values TWA: 5 ppm 8 hours. TWA: 9 mg/m² 8 hours.	

## procedures

Recommended monitoring : 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: 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 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

## 8.2 Manufacturer: Exposure controls

#### Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

## 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. Considering the parameters specified by the glove manufacturer. check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.



#### Body protection

Permeation level 6, Penetration level 3 following EN374, taking into consideration the exposure of chemicals given in chapter 3.

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### 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

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### 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

Appearance

Physical state : Liquid. [Clear. Viscous liquid.]

Color : Colorless. Odor : Citrus Odor threshold : Not available.

: 0.4 to 1.1[Conc. (% w/w): 100%] [20°C] рΗ

: Not available. Melting point/freezing point Initial boiling point and : Not available.

boiling range

Flash point : Closed cup: >93.3°C

Evaporation rate : Not available. : Not available. Flammability (solid, gas) Burning time : Not applicable. **Burning rate** : Not applicable. Upper/lower flammability or : Not available.

explosive limits

: Not available. Vapor pressure : Not available. Vapor density

Density : 1.035 to 1.055 g/cm3 [20°C]

Solubility(ies) : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/ : Not available.

Decomposition temperature Not available. Viscosity : Not available. : Not available. Explosive properties Oxidizing properties : Not available.

Corrosivity Remarks : May be corrosive to metals.

#### 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.

: The product is stable. 10.2 Chemical stability

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : Reactive or incompatible with the following materials:

metals

Do not mix with household chemicals.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Instability Conditions : Not available.

: Not available. Instability temperature



## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sulphamidic acid	LD50 Oral	Rat	3160 mg/kg	-
formic acid	LC50 Inhalation Vapor	Rat	7400 mg/m³	4 hours
	LD50 Oral	Rat	730 mg/kg	-
Alcohols, C9-11, ethoxylated	LD50 Oral	Rat	1378 mg/kg	-
Ethanedioic acid, hydrate (1:	LD50 Oral	Rat	33 mg/kg	-
2)				

## Acute toxicity estimates

Route	ATE value	
Oral	26463.4 mg/kg	
Dermal	91666.7 mg/kg	

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
* Cillit Bang Grime & Lime	Eyes - Cornea opacity	In vitro	>3	-	-
_	Skin - Irritant	In vitro	-	-	-
sulphamidic acid	Eyes - Moderate irritant	Rabbit	-	20 milligrams	-
•	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
	Skin - Mild irritant	Human	-	Micrograms 120 hours 4 Percent Intermittent	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-
formic acid	Eyes - Severe irritant	Rabbit	-	122	-
	Skin - Mild irritant	Rabbit	-	milligrams 610 milligrams	-

 Skin
 : Irritating to skin. \* Information is based on toxicity test result of a similar product.

 Eyes
 : Severely irritating to eyes. \* Information is based on toxicity test result of a similar

## Sensitization

No known effect according to our database.

#### Mutagenicity

No known effect according to our database.

## Carcinogenicity

No known effect according to our database.

## Reproductive toxicity

No known effect according to our database.

#### Teratogenicity

No known effect according to our database.

#### Specific target organ toxicity (single exposure)

No known effect according to our database.

## Specific target organ toxicity (repeated exposure)

No known effect according to our database.

## Aspiration hazard

No known effect according to our database.



#### Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory

system. Exposure to decomposition products may cause a health hazard. Serious

effects may be delayed following exposure.

Skin contact : Causes skin irritation.

Ingestion : May cause burns to mouth, throat and stomach.

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Ingestion : Adverse symptoms may include the following:

stomach pains

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

#### Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.

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.

Other information : Not available.



## **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
sulphamidic acid formic acid	Acute LC50 14200 μg/l Fresh water Acute EC50 151200 μg/l Fresh water	Fish - Pimephales promelas Daphnia - Daphnia magna - Larvae	96 hours 48 hours
	Acute LC50 80000 to 90000 µg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours
Alcohols, C9-11, ethoxylated	Acute EC50 5.36 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 2686 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8500 µg/l Fresh water	Fish - Pimephales promelas	96 hours

#### 12.2 Persistence and degradability

No known effect according to our database.

Conclusion/Summary

: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
	0.101	-	low
formic acid	-2.3		low
Alcohols, C9-11, ethoxylated	-	237	low

## 12.4 Mobility in soil

Soil/water partition

coefficient (Koc)

: Not available.

Mobility : Not available.

## 12.5 Results of PBT and vPvB assessment

PBT : Not applicable. vPvB : Not applicable.

12.6 Other adverse effects : 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 : Yes European waste catalogue (EWC)

Waste code	Waste designation	
20 01 29*	detergents containing dangerous substances	

#### 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 safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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**

For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1760	UN1760	UN1760	UN1760
14.2 UN proper shipping name	CORROSIVE LIQUID, N.O.S. (sulphamidic acid, formic acid)	CORROSIVE LIQUID, N.O.S. (sulphamidic acid, formic acid)	CORROSIVE LIQUID, N.O.S. (sulphamidic acid, formic acid)	Corrosive liquid, n.o.s. (sulphamidic acid, formic acid)
14.3 Transport hazard class(es)	8	*	*	*
14.4 Packing group	Ш	III	III	III
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	Hazard identification number 80 Limited quantity 5 L Special provisions 274 Tunnel code (E)	274	Emergency schedules (EmS) F-A, S-B Special provisions 223, 274	See DG List.



## **SECTION 15: REGULATORY INFORMATION**

Chemical Safety Assessment following regulation 1907/2006/EC: Not relevant.

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

Annex XVII - Restrictions : Not applicable. on the manufacture,

placing on the market and use of certain dangerous substances,

Integrated pollution prevention and control

mixtures and articles

list (IPPC) - Air

Integrated pollution prevention and control list (IPPC) - Water : Not listed

: Not listed

CMR Substances

None of the components are listed. Storage code : 8B

Storage code Reference: : TRGS 510 - Storage of hazardous substances in nonstationary containers

Hazard class for water : 1 Appendix No. 4

WGK: Notes : - for bulk material, not applicable for product in domestic pack sizes. Administrative

Regulation on the Classification of Substances hazardous to waters into Water

Hazard Classes (VwVwS)



## **SECTION 16: OTHER INFORMATION**

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation (Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

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

Key literature references

and sources for data

: Not available.

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

Met. Corr. 1, H290 Skin Irrit. 2, H315 Eye Dam. 1, H318

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

Classification	Justification	
Met. Corr. 1, H290 Skin Irrit. 2, H315 Eye Dam. 1, H318	Expert judgment On basis of test data On basis of test data	

Europe

Full text of abbreviated H

statements

: H290 May be corrosive to metals.

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Full text of classifications

[CLP/GHS]

: Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4

Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 3
Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Met. Corr. 1, H290 CORROSIVE TO METALS - Category 1

Skin Corr. 1A, H314 SKIN CORROSION/IRRITATION - Category 1A

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Full text of abbreviated R

phrases

: R22- Harmful if swallowed.

R21/22- Harmful in contact with skin and if swallowed.

R35- Causes severe burns.

R41- Risk of serious damage to eyes.

R38- Irritating to skin.

R36/38- Irritating to eyes and skin.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Full text of classifications

[DSD/DPD]

: C - Corrosive Xn - Harmful Xi - Irritant



This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current knowledge if the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product other than that for which it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsibility to take due precautions relative to the use made of the product. All information contained herein is only to assist the recipient in fulfilling their statutory duty connected with the use of hazardous materials.

This Document may be entitled <u>Product Safety Data Sheet</u> as required by REACH (Registration, Evaluation, Authorisation and restriction of Chemicals) Annex II OR <u>Product Data Information Sheet</u> where a product is not required to be supported by a full REACH compliant SDS (e.g. not classified as hazardous or out of scope, such as cosmetics). Changes from the previous version are given in Section 1.

This list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which they remain the sole person responsible.