

# FIRMA SRL

000328 - DS2

Revision nr.12 Dated 04/11/2022 Printed on 04/11/2022 Page n. 1 / 10 Replaced revision:11 (Dated 18/02/2022)

## Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code:	000328
Product name	DS2
INDEX number	016-026-00-0
EC number	226-218-8
CAS number	5329-14-6
Registration Number	01-2119488633-28

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

Intended use	Descaler in powder form for dishwashers and washing machines

Identified Uses	Industrial	Professional	Consumer
Products for washing and cleaning	$\checkmark$	$\checkmark$	-
Products for washing and cleaning	-	-	<b>v</b>
Uses Advised Against			
None known			

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

Name Full address District and Country	FIRMA SF VIA PER   42015	RL MODENA, 28 CORREGGIO IT	(RE)	
	Tel. Fax	0522 691880 0522 631277		
e-mail address of the competent person responsible for the Safety Data Sheet	SDS@FIR	RMACHIMICA.IT		
Supplier:	FIRMA SF	RL		
1.4. Emergency telephone number				
For urgent inquiries refer to	Tel. 0039 0522 691880 Office hours: 08.30 - 12.30, 14.00 - 18.00 Tel. 0039 0522 036527 other times – laboratorio@firmachimica.it			

## 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 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.
toxicity, category 3		

#### 2.2. Label elements

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

Hazard pictograms:





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#### SECTION 2. Hazards identification ... / >>

Signal words:	Warning
Hazard statements:	
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statements	S:
P273	Avoid release to the environment.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P302+P352	IN CASE OF CONTACT WITH 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.
P314	Get medical advice / attention if you feel unwell.
Contains:	SULPHAMIC ACID
INDEX	016-026-00-0

#### 2.3. Other hazards

The substance does not have persistence, bioaccumulation and toxicity (PBT) properties and is not very persistent and very bioaccumulative. (vPvB).

The substance does not have endocrine disrupting properties.

#### **SECTION 3.** Composition/information on ingredients 3.1. Substances Contains: Identification Classification (EC) 1272/2008 (CLP) x = Conc. %SULPHAMIC ACID INDEX 016-026-00-0 $99,9 \le x \le 100$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 3 H412 FC. 226-218-8 CAS 5329-14-6 REACH Reg. 01-2119488633-28

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: eliminate any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening the eyelids well. See a doctor immediately.

SKIN: wash immediately with water and rinse. Change clothes if necessary. If irritation persists or tissue damage occurs, seek medical advice. In case of skin irritation consult a doctor.

INGESTION: DO NOT induce vomiting. Seek medical advice immediately. Never give anything by mouth to an unconscious or cramped person.

INHALATION: Call a doctor immediately. Take the person outdoors, away from the accident site. If breathing stops, give artificial respiration. Take adequate precautions for the rescuer.

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

Causes serious eye irritation. Causes skin irritation.

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

Information not available.



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## **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA: The extinguishing media are the traditional ones: carbon dioxide, foam and chemical powder. For leaks and spills of the product that have not ignited, the nebulized water can be used to disperse the flammable vapors and to protect the people involved in stopping the loss. NON-SUITABLE EXTINGUISHING MEDIA: Do not use water jets. Water is not effective for extinguishing the fire but it can be used to cool closed containers exposed to the flame, preventing bursts and explosions.

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

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE: Avoid breathing combustion products: carbon oxides.

### 5.3. Advice for firefighters

GENERAL INFORMATION: Cool the containers with water jets to avoid decomposition of the product and the development of substances potentially hazardous for health. Wear, if necessary, complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of the contaminated water used for the fire extinguisher and the residue according to the regulations in force. EQUIPMENT: Not necessary for small fires. If necessary, wear fire-fighting clothing such as a fireproof suit (EN469), fireproof gloves (EN659) and boots for firefighters (HO A29 or A30) depending on the amount of product and any other materials involved in the fire.

## SECTION 6. Accidental release measures

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

Stop the leak if there is no danger. Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers involved in the work and for emergency interventions.

#### 6.2. Environmental precautions

Prevent the product from entering sewers, surface waters, water tables.

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

Vacuum the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material. Ensure adequate ventilation of the area affected by the loss. Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

#### 6.4. Reference to other sections

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

## **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.

#### 7.3. Specific end use(s)

See the exposure scenarios attached to this safety datasheet.



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

#### 8.1. Control parameters

			SULP	HAMIC ACID				
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					1,8	mg/l	
Normal value in marin	ne water					0,18	mg/l	
Normal value for fres	h water sed	iment				8,36	mg/kg/d	
Normal value for mar	ine water se	ediment				0,84	mg/kg/d	
Normal value of STP	microorgan	isms				20	mg/l	
Normal value for the	terrestrial co	ompartment				5	mg/kg/d	
ealth - Derived no-eff	ect level - C	ONEL / DMEL						
	Effects of	n consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral			VND	5				
				mg/kg/d				
Inhalation			VND	17,4				70,5
				mg/m3				mg/m3
				5				10
Skin								
Skin				mg/kg bw/d				mg/kg

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

#### 8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

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.

When choosing risk management measures and operating conditions, consult the exposure scenarios attached.

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. SKIN PROTECTION

Wear category III 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.

It is advisable to wear airtight protective goggles if splashing is foreseeable (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

Respiratory protection is not normally required. In any case, avoid inhalation of vapors, aerosols and gases. Use self-contained breathing apparatus or masks with filter type "A" during emergency operations. EN 141 gas / vapor filters. A respirator is not required under normal conditions of use and under the conditions for using the product. In case of insufficient ventilation and / or in the case of short or minimal exposure use the mask, wear an appropriate respirator (with filter type "A").

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.

For information on controlling environmental exposure, see the exposure scenarios attached to this safety datasheet.

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

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

Properties
Appearance
Colour
Odour
Melting point / freezing point

Value white powder white odourless 205 °C

Information



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## **FIRMA SRL** 000328 - DS2

505.28 µm

#### ... / >> **SECTION 9.** Physical and chemical properties

Lower explosive limitnot aUpper explosive limitnot aFlash pointnot a	applicable
Decomposition temperature 209	flammable applicable applicable applicable applicable
pH 0,41	°C
Dynamic viscositynot aSolubility181.Partition coefficient: n-octanol/waternot aVapour pressure0,8Density and/or relative density1	applicable applicable .4 g/l applicable Pa g/cm3 available

#### Particle characteristics Median equivalent diameter

Median equivalent diameter

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Reason	for missing	data:The su	ubstance
decomp	oses	before	boiling

Reason for missing data:non -explosive mixture Reason for missing data:non -explosive mixture Reason for missing data:Not relevant for solids Reason for missing data:non -resting substance

Concentration: 10 % Temperature: 25 °C Reason for missing data:Not relevant for solids Reason for missing data:Not relevant for solids Temperature: 20 °C Reason for missing data:Not relevant for solids Temperature: 20 °C Temperature: 20 °C

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Molecular weight g/mol	97,1
Total solids (250°C / 482°F)	100,00 %
Explosive properties	not explosive
Oxidising properties	not oxidizing

### SECTION 10. Stability and reactivity

In the absence of data relating to the preparation, the following information refers to the substances that make up the mixture.

#### 10.1. Reactivity

The product reacts violently with strongly alkaline products, developing heat.

Scaldato a decomposizione emette: ossidi di zolfo Scaldato a decomposizione emette: gas di ammonio

#### 10.2. Chemical stability

The product is stable in the recommended storage and use conditions (see paragraph 7).

The product is very stable as a solid anhydrous crystalline, in aqueous solution it is very acidic and slowly hydrolyz at room temperature forming sulphate and bisulfate.

#### 10.3. Possibility of hazardous reactions

In normal use and storage conditions dangerous reactions are not predictable.

SULPHAMIC ACID: risk of explosion on contact with chlorine. Reacts dangerously with metal nitrites and nitrates.

#### 10.4. Conditions to avoid

None in particular. However, follow the usual precautions against chemical products and do not mix with preparations based on hypochlorites and chlorine derivatives in general.

Keep away from heat sources and sparks. Avoid the formation of dust.

#### 10.5. Incompatible materials



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### SECTION 10. Stability and reactivity .../>>

Do not store in metal containers: it reacts with zinc, copper and their alloys.

SULPHAMIC ACID: chlorine, nitric acid, sodium nitrites and nitrates, potassium.

#### 10.6. Hazardous decomposition products

By contact with chlorine derivatives toxic gases are released.

SULPHAMIC ACID: sulphur oxides and nitric oxides.

## **SECTION 11. Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

SULPHAMIC ACID LD50 (Dermal): LD50 (Oral):

> 2000 mg/kg Ratto 2065 mg/kg ratto

#### SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

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



## SECTION 11. Toxicological information ... / >>

### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

#### 11.2. Information on other hazards

Based on the available data, the substance is not listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

### 12.1. Toxicity

SULPHAMIC ACID LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants Chronic NOEC for Fish Chronic NOEC for Crustacea

70,3 mg/l/96h Pimephales promelas 71,6 mg/l/48h Daphnia magna 48 mg/l/72h Desmodesmus subspicatus > 60 mg/l 34 giorni - Danio rerio 19 mg/l 21 giorni - Daphnia magna

#### 12.2. Persistence and degradability

SULPHAMIC ACID Entirely degradable

N.A. inorganico

#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Information not available

## 12.5. Results of PBT and vPvB assessment

The substance does not have persistence, bioaccumulation and toxicity (PBT) properties and is not very persistent and very bioaccumulative. (vPvB).

#### 12.6. Endocrine disrupting properties

Based on the available data, the substance is not listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

Information not available

## **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.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

#### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: 2967



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#### SECTION 14. Transport information ... / >>

### 14.2. UN proper shipping name

ADR / RID:	SULPHAMIC ACID
IMDG:	SULPHAMIC ACID
IATA:	SULPHAMIC ACID

#### 14.3. Transport hazard class(es)

ADR / RID:	Class: 8	Label: 8
IMDG:	Class: 8	Label: 8
IATA:	Class: 8	Label: 8



#### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

#### 14.6. Special precautions for user

ADR / RID: IMDG:

IATA:

#### HIN - Kemler: 80 Special provision: -EMS: F-A, S-B Cargo: Pass .: Special provision:

Limited Quantities: 5 kg

Limited Quantities: 5 kg Maximum quantity: 100 Kg Maximum quantity: 25 Kg A803

Tunnel restriction code: (E)

Packaging instructions: 864 Packaging instructions: 860

#### 14.7. Maritime transport in bulk according to IMO instruments

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Information not relevant

## **SECTION 15. Regulatory information**

ISS Code (Company / Preparation): 00466200359 /003

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

Seveso Category - Directive 2012/18/EU:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Contained substance 75

Point

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:



## SECTION 15. Regulatory information ... / >>

#### None

None

Substances subject to the Stockholm Convention:

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.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the substance.

## **SECTION 16. Other information**

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

Eye Irrit. 2 Skin Irrit. 2	Eye irritation, category 2 Skin irritation, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) 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 (EU) 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)



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#### SECTION 16. Other information ... / >>

- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII 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.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified: 09 / 11.

#### 09711.

## **Exposure Scenarios**

ProductDS2Scenario TitleACIDO SULFAMMICORevision nr.1FileEN\_0079\_1.pdf

@EPY 11.4.1 - SDS 1004.14