

GPS Safety Summary

Substance Name:

Soda waters

1. General Statement

Soda waters is a chemical consisting of a reaction mass of sodium sulphate and disodium dodecanedioate and Dodecanoic acid, 12-amino-, sodium salt. It is used in the paper industry as an active agent in the manufacturing of paper pulp notably by Kraft process.

2. Chemical Identity

Name: Soda waters
Chemical name (IUPAC): Reaction mass of sodium sulphate and disodium dodecanedioate and Dodecanoic acid, 12-amino-, sodium salt
EC number: 914-147-1

3. Use and applications

The substance is exclusively used in the paper industry for the production of paper notably by Kraft process.

4. Physical / Chemical properties

The reaction mass is a liquid with the following physicochemical properties:

Property	Value
Physical state	Liquid
Form	Heterogeneous mixture
Colour	Brown
Odour	None
Molecular weight	Not applicable
Density	1.236 g/cm ³ at 20°C
Freezing point	-6.5°C at 1013 hPa
Boiling point	106°C at 1013 hPa
Flash point – flammability	No flash point up to its boiling temperature. Not flammable.
Explosive / oxidizing properties	Not explosive based on structure and composition.
Self-ignition temperature	560°C at 1013 hPa
Vapour pressure	585 Pa at 20°C
Water solubility	Completely soluble
Octanol-water partition coefficient (LogKow)	< 3 (estimated value)

5. Health Effects

Effect Assessment	Result
Acute Toxicity Oral / inhalation / dermal	<i>Oral:</i> Based on the available test data, not expected to cause significant effect after acute oral exposure. <i>Derma:</i> Based on the available test data, not expected to cause significant effect after acute dermal exposure. <i>Inhalation:</i> No data
Irritation / corrosion Skin / eye/ respiratory tract	<i>Skin:</i> Slightly irritant but not classified. <i>Eye:</i> Classified as corrosive to the eye.
Sensitisation	Based on the available test data, not expected to cause allergic skin reactions.
Toxicity after repeated exposure Oral / inhalation / dermal	No data available.
Genotoxicity / Mutagenicity	Based on the available test data, not expected to cause adverse genetic effects.
Carcinogenicity	No data available.
Reproductive / Developmental Toxicity	No data available.

6. Environmental Effects

The aquatic toxicity of the Reaction mass of sodium sulphate and disodium dodecanedioate and Dodecanoic acid, 12-amino-, sodium salt has been assessed in three acute tests; no toxicity was shown with these organisms.

The mixture should be considered as inherently biodegradable, and not bioaccumulable due to the low estimated log Kow.

Effect Assessment	Result
Aquatic Toxicity	Slightly harmful to aquatic life.

Fate and behaviour	Result
(Bio)degradation potential	Inherently biodegradable
Bioaccumulation potential	Not bioaccumulable
PBT / vPvB conclusion	Not considered to be PBT or vPvB.

7. Exposure

7.1 Human health

The substance is produced and used in closed systems on industrial sites. There will be no exposure of the general population. Workers may be exposed during some specific activities but based on the physicochemical properties of the substance and the duration of these activities, the workers exposure will not be significant. Nevertheless workers should follow the recommended safety measures in the extended Safety Data Sheet (eSDS).

7.2 Environment

The substance is produced in a closed system and all industrial aqueous releases that may contain the substance must be treated to avoid any release to the environment. The substance is used in a closed process where it is entirely consumed. Thus there is no significant exposure to the environment.

8. Risk Management recommendations

Human health measures	
Organizational	Implement good basic standards of occupational hygiene. Ensure operatives are well informed of the hazards and trained to minimise exposures. Refer to the latest available extended safety data sheet (eSDS).
Engineering controls	Use material of high integrity for loading and unloading. Investigate engineering techniques to reduce exposures. Ensure sufficient air exchange and/or exhaust in work areas, Routine monitoring and inspections for leaks to reduce fugitive emissions. Ensure that eye- and handwash stations and safety showers are close to workstation locations.
Protection	Eye/Face protection: Safety glasses with side-shields
	Skin protection: Protective suit, non-skid boots
	Hand protection: Rubber gloves compliant with EN 374
	Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
Environment protective measures	
On-site waste water treatment is required. Do not release into the environment. Do not let product enter drains. Dam up with inert material. Destroy absorbed product in accordance with local and national regulations. Use techniques to minimize emissions (incineration or any treatment to minimize level of release).	

9. Regulatory Information / Classification and Labelling


9.1 Regulatory Information

This substance has been registered under:

- EU Regulation EC 1907/2006 (REACH)

9.2 Classification and labelling

Under GHS substances are classified according to their physical, health, and environmental hazards. The hazards are communicated via specific labels and the eSDS. GHS attempts to standardize hazard communication so that the intended audience (workers, consumers, transport workers, and emergency responders) can better understand the hazards of the chemicals in use. Substances registered for REACH are classified according CLP (EC) 1272/2008, implementation of the GHS in the European Union.

Classification	
According to REGULATION (EC) no 1272/2008:	
– Eye Damage; Category 1; Causes serious eye damage.	
Pictogram	
– GHS05: corrosion	
Hazard statement	
– H318: Causes serious eye damage.	
Additional Classification according Global Harmonized System (GHS)	
– Acute Toxicity (Dermal), Category 5 : May be harmful in contact with skin	

10. Contact Information within Company

For further information on this substance or product safety summary in general, please contact:

- arkema.reach-dpt1@arkema.com
- **ICCA portal where the GPS Safety Summary is posted:**
<http://www.icca-chem.org/en/Home/ICCA-initiatives/global-product-strategy/>

11. Date of Issues / Revision

- Date of issue: 11/03/2013
- Date of revision:

12. Disclaimer

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