

# Safety Data Sheet

According to Regulation (EC) No 1907/2006

# **Enhance Spot & Stain Remover**

Revision: 2014-10-08

Version: 04.0

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

#### **1.1 Product identifier**

Trade name: Enhance Spot & Stain Remover

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

Identified uses: For professional use only. AISE-P409 - Carpet cleaner. Manual process AISE-P411 - Carpet cleaner. Spray and brush manual process Uses advised against: Uses other than those identified are not recommended

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

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

#### **Contact details**

Diversey Ltd Weston Favell Centre, Northampton NN3 8PD, United Kingdom Tel: 01604 405311, Fax: 01604 406809 Regulatory Email: MSDSinfoUK@sealedair.com

#### 1.4 Emergency telephone number

For medical or environmental emergency only: call 0800 052 0185

# SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product does not meet the criteria for classification in accordance with Directive 1999/45/EC and corresponding national legislation

#### 2.2 Label elements

#### Hazard statements:

EUH210 - Safety data sheet available on request.

#### 2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

# SECTION 3: Composition/information on ingredients

# 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	287-809-4	85586-07-8	01-2119489463-28	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	Xn;R22 Xi;R38-41		1-3

\* Polymer.

For the full text of the R, H and EUH phrases mentioned in this Section, see Section 16.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.



# SECTION 4: First aid measures

4.1 Description of first aid measur	es
Inhalation	Get medical attention or advice if you feel unwell.
Skin contact:	Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.
Eye contact:	Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.
Self-protection of first aider:	Consider personal protective equipment as indicated in subsection 8.2.
4.2 Most important symptoms and	effects, both acute and delayed
Inholotion	No known offects or symptoms in normal use

Inhalation:	No known effects or symptoms in normal use.
Skin contact:	No known effects or symptoms in normal use.
Eye contact:	No known effects or symptoms in normal use.
Ingestion:	No known effects or symptoms in normal use.

# **4.3 Indication of any immediate medical attention and special treatment needed** No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.

#### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

# **SECTION 6: Accidental release measures**

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

No special measures required.

#### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

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

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

#### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

# SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Sealed Air.

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

Store in accordance with local and national regulations. Keep only in original container. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

#### 7.3 Specific end use(s)

No specific advice for end use available.

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

#### 8.1 Control parameters Workplace exposure limits

Air limit values, if available:

#### Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

#### **DNEL/DMEL and PNEC values**

#### Human exposure

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available	No data available	No data available	24

#### DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available	No data available	No data available	4060

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available	No data available	No data available	2440

DNEL inhalatory exposure - Worker (mg/m <sup>3</sup> )				
Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available	No data available	No data available	285

#### DNEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
	effects	effects	effects	effects
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available	No data available	No data available	85

#### **Environmental exposure**

Environmental	exposure -	PNEC
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Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	0.102	0.01	0.036	1084

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater	Sediment, marine	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
	(mg/kg)	(mg/kg)		
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	3.58	0.358	0.654	No data available

#### 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the <u>undiluted</u> product:

Appropriate engineering controls: Appropriate organisational controls:	Use only in well ventilated areas. Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment	
Eye / face protection:	Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.
Hand protection:	Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.
Body protection:	No special requirements under normal use conditions.
Respiratory protection:	Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.
Environmental exposure controls:	No special requirements under normal use conditions.

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

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

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Physical State: Liquid Colour: Milky, White Odour: Slightly perfumed Odour threshold: Not applicable Method / remark

#### **pH:** ≈ 6 (neat) Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Substance data, boiling point	t
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Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	> 100	Method not given	

Method / remark

Flash point (°C): Not applicable. Sustained combustion: Not determined Evaporation rate: Not determined Flammability (solid, gas): Not determined Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Method / remark

#### Vapour pressure: Not determined

Substance data, vapour pressure			
Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available		

#### Vapour density: Not determined Relative density: 1.00 g/cm3 (20 °C) Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	Soluble	Method not given	

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined Explosive properties: Not explosive. Oxidising properties: Not oxidising

### 9.2 Other information

Surface tension (N/m): Not determined Corrosion to metals: Not corrosive

Substance data, dissociation constant, if available:

# SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

#### 10.2 Chemical stability

Stable under normal storage and use conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

#### 10.4 Conditions to avoid

None known under normal storage and use conditions.

#### 10.5 Incompatible materials

None known under normal use conditions.

#### 10.6 Hazardous decomposition products

None known under normal storage and use conditions.

# SECTION 11: Toxicological information

# 11.1 Information on toxicological effects

# Method / remark

#### Mixture data:

#### Relevant calculated ATE(s): ATE - Oral (mg/kg): >2000

Skin irritation and corrosivity Result: Not corrosive or irritant	Method: Weight of evidence
Eye irritation and corrosivity	
Result: Not corrosive or irritant	Method: Weight of evidence

Substance data, where relevant and available, are listed below.

#### Acute toxicity Acute oral tox

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	LD 50	> 1800	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	LD 50	> 2000	Rabbit	Method not given	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts		No data available			

# Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4)	
ye irritation and corrosivity				
Ingredient(s)	Result	Species	Method	Exposure time
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	Severe damage	Rabbit	OECD 405 (EU B.5)	
	oororo aamago	1100011	0202 100 (20 210)	
	eerere damage		0100 100 (10 5.0)	
espiratory tract irritation and corrosivity				

Ingredient(s)	Result	Species	Method	Exposure time
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available			

# Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available			

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
		(in-vitro)		(in-vivo)
sulphuric acid, mono-C12-14-alkyl esters,	No evidence for mutagenicity, negative	OECD 471 (EU	No evidence for mutagenicity, negative	OECD 474 (EU
sodium salts	test results	B.12/13) OECD	test results	B.12)
		476 (Mouse		
		lymphoma)		

#### Carcinogenicity

Ingredient(s)	Effect
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	NOEL	Teratogenic effects Developmental toxicity	250	Rat	OECD 414 (EU B.31), oral		

Repeated dose toxicity Sub-acute or sub-chronic oral toxicity

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Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	NOAEL	488		OECD 408 (EU B.26)	90	

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sulphuric acid, mono-C12-14-alkyl esters, sodium salts		No data available				

#### Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sulphuric acid, mono-C12-14-alkyl esters, sodium salts		No data available				

#### Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
sulphuric acid,			No data					
mono-C12-14-alkyl			available					
esters, sodium salts								

#### STOT-single exposure

Ingredient(s)	Affected organ(s)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available

#### STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available

#### Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

#### Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below

#### Aquatic short-term toxicity Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	LC 50	3.6	Fish	OECD 203	96

Aquatic short-term toxicity - crustacea					
Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	EC 50	4.7	Daphnia	84/449/EEC, C2	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	Er C 50	> 20	Not specified	88/302/EEC, Part C, static	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sulphuric acid, mono-C12-14-alkyl esters, sodium salts		No data available			

#### Impact on sewage plants - toxicity to bacteria

Ingredient(s)		Value (mg/l)	Inoculum	Method	Exposure time
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	EC 10	1084	Bacteria	DIN 38412 / Part 8	16 hour(s)

#### Aquatic long-term toxicity

Aquatic long-term toxicity - fish

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Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	NOEC	0.11 - 0.35	Not specified	OECD 210	34 day(s)	

Aquatic long-term toxicit	
Aqualic long-lenn loxicit	y - crusiacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	NOEC	0.508	Daphnia sp.	Method not given	7 day(s)	

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:								
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed		
		(mg/kg dw sediment)			time (days)			
sulphuric acid, mono-C12-14-alkyl esters, sodium salts		No data available						

# **Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

# 12.2 Persistence and degradability

Abiotic degradation Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

# Biodegradation

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sulphuric acid, mono-C12-14-alkyl esters, sodium salts			75.7 % in 28 day(s)	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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

Partition coefficient n-octanol/water (log Kow)								
Ingredient(s)	Value	Method	Evaluation	Remark				
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	< -2.42	Method not given	No bioaccumulation expected					

#### Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sulphuric acid,	No data available				
mono-C12-14-alkyl					
esters, sodium salts					

#### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment								
Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation			
sulphuric acid, mono-C12-14-alkyl esters, sodium salts	No data available							

#### 12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

#### 12.6 Other adverse effects

No other adverse effects known.

# **SECTION 13: Disposal considerations**

#### **Enhance Spot & Stain Remover**

13.1 Waste treatment methods Waste from residues / unused products:

**European Waste Catalogue:** 

Empty packaging Recommendation: Suitable cleaning agents: The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation. 20 01 30 - detergents other than those mentioned in 20 01 29.

Dispose of observing national or local regulations. Water, if necessary with cleaning agent.

# **SECTION 14: Transport information**

#### ADR, RID, ADN, IMO/IMDG, ICAO/IATA

- 14.1 UN number: Non-dangerous goods
- 14.2 UN proper shipping name: Non-dangerous goods
- 14.3 Transport hazard class(es): Non-dangerous goods
- Class: -
- 14.4 Packing group: Non-dangerous goods
- 14.5 Environmental hazards: Non-dangerous goods
- 14.6 Special precautions for user: Non-dangerous goods
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: The product is not transported in bulk tankers.

# **SECTION 15: Regulatory information**

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

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

# Ingredients according to EC Detergents Regulation 648/2004 anionic surfactants

perfumes, Hexyl Cinnamal, Butylphenyl Methylpropional

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

# **SECTION 16: Other information**

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

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#### Reason for revision:

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3

#### Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

#### Full text of the R, H and EUH phrases mentioned in section 3:

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage
- H412 Harmful to aquatic life with long lasting effects.
- R22 Harmful if swallowed.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- Abbreviations and acronyms:
- AISE The international Association for Soaps, Detergents and Maintenance Products
- DNEL Derived No Effect Limit
- EUH CLP Specific hazard statement
- PBT Persistent, Bioaccumulative and Toxic
- PNEC Predicted No Effect Concentration
- REACH number REACH registration number, without supplier specific part
- vPvB very Persistent and very Bioaccumulative
  ATE Acute Toxicity Estimate

End of Safety Data Sheet