

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended



SULFONATE ALPHA OLEFIN

Creation date	29th August 2017	Version	4.0
Revision date	07th January 2024	Revision no.	

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

- 1.1. Product identifier **SULFONATE ALPHA OLEFIN**
Substance / mixture **mixture**
Number **10702**
UFI **MUMX-U0JV-W004-28WW**
Other mixture names
Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts;
Sodium C14 - C16 Olefin Sulfonate
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use
Basic surfactant in the production of detergents and personal care products.
Main intended use
PC-UNC **Chemical products - uncategorised**
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet
Manufacturer
Name or trade name **INTERCHIMIE**
Address **ZAC du Parc
13 rue Louis Blériot FR-
77290 COMPANS
T T: +33 (0)1 64 77 76 27
qualite@interchimie.fr -
www.interchimie.fr**
Competent person responsible for the safety data sheet
qualite@interchimie.fr
- 1.4. Emergency telephone number
National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111
UK 24hr Emergency Number +44 (0)1270 502891
Emergency telephone number abroad
Giftinformationszentrum-Nord, Tel.: +49 551 19 240.

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Skin Irrit. 2, H315
Eye Irrit. 2, H319
Most serious adverse effects on human health and the environment
Causes skin irritation. Causes serious eye irritation.

- 2.2. Label elements
Hazard pictogram



Signal word
Warning
Hazardous substances
Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts

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Hazard statements H315

H319 Precautionary Causes skin irritation.
statements Causes serious eye irritation.

P280

P302+P352 Wear protective gloves.

P305+P351+P338

IF ON SKIN: Wash with plenty of water and soap.

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

P332+P313

If skin irritation occurs: Get medical advice/attention.

P337+P313

If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68439-57-6 EC: 931-534-0 Registration number: 01-2119513401-57-0002	Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts	<38	Skin Irrit. 2, H315 Eye Dam. 1, H318 Specific concentration limit: Skin Irrit. 2, H315; Eye Dam. 1, H318: C ≥ 38 % Skin Irrit. 2, H315; Eye Irrit. 2, H319: 5 % ≤ C < 38 % Skin Irrit. 2, H315: C ≥ 5 %	1

Notes

1 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data

sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist. If on skin Remove contaminated clothes.

Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution

or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Note: If the product sticks to the skin and cannot be removed using water and cleaning products or edible oil, do not use force and leave for specialized treatment.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible. Note: If the product sticks to the skin and cannot be removed using water and cleaning products or edible oil, do not use force and leave for specialized treatment.

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If swallowed

DO NOT INDUCE VOMITING - even the inducing of vomiting by itself may cause complications (i.e. inhalation of the substance in airways and lungs, for example, in case of detergents and other substances that produce foam or mechanical damage to the mucous membrane of the pharynx may be caused). If possible, provide a small amount of activated carbon (1-2 crushed tablets). For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product. Provide medical treatment if the person has any health problems.

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

If inhaled

Not expected.

If on skin

Painful reddening, irritation.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

foam, carbon dioxide, powder, water spray jet, water mist

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

The substance is non-flammable. Provide sufficient ventilation. Use gloves in case of prolonged contact. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight.

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Storage class 12 - Non-combustible liquids that cannot be assigned to any of the above storage classes
Storage temperature min 15 °C, max 40 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

Basic surfactant in the production of detergents and personal care products.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts			
Workers / consumers	Route of exposure	Value	Effect Chronic effects
Workers	Dermal	2158.33 mg/kg bw/day	systemic
Workers	Inhalation	152.22 mg/m ³	Chronic effects systemic
Consumers	Dermal	1295 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	45.04 mg/m ³	Chronic effects systemic
Consumers	Oral	12.95 mg/kg bw/day	Chronic effects systemic

PNEC

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts	
Route of exposure	Value
Drinking water	0.042 mg/l
Marine water	0.0042 mg/l
Water (intermittent release)	0.042 mg/l
Freshwater sediment	2.025 mg/kg of dry substance of sediment
Sea sediments	0.2025 mg/kg of dry substance of sediment

- 8.2. Exposure controls Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Protective equipment for the workplace must be selected in accordance with specifications set up in Directive 89/686/EEC. Protective suit (in compliance with EN 340 and EN 14325) must be selected depending on concentration and quantity of the hazardous substance(s) handled. The supplier must guarantee for chemical-resistance of the protective suit. Eye/face protection tightly sealed protective goggles or protective shield (according to EN 166)

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Skin protection Use chemical-resistant, impervious protective gloves (according to EN 374-1):

permanent contact:

material – nitrile rubber

glove thickness – 0.11 mm

permeation time > 480 min

permeation class – 6

splash:

material – nitrile rubber

glove thickness – 0.11 mm

permeation time > 480 min

permeation class – 6

Gloves used must comply with the specifications set up in Directive 89/686/EEC and related norm EN 374-1.

Additional warning:

The data above are based on our own tests, literature data or they were analogically derived from similar substances.

With regards to various conditions (eg. temperature) the actual durability life of gloves resistant to chemicals may be substantially shorter than the permeation time set up in the EN 374-1 standard. Observe recommendations of the particular manufacturer of the gloves when choosing appropriate thickness, material and permeability. Respiratory protection Respiratory protection is required if fumes/aerosols are formed or in case of inadequate ventilation.

Recommended type of filter:

Filter A (according to EN 14387 + A1) against organic gases and vapours of organic substances with boiling point > 65°C. Appropriate room ventilation is also essential.

Thermal hazard

not available

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

physical state

liquid at 20 °C

form color

liquid

Odour

yellow

pH

Faint, product specific.

Melting point/freezing point

11 (10% solution at 20 °C)

Initial boiling point and boiling range

<0 °C

Flash point

>100 °C

Flammability (solid, gas)

>100 °C

Upper/lower flammability or explosive limits

data not available

explosive limits

data not available

Vapour pressure

data not available

Solubility(ies)

solubility in water

soluble

Partition coefficient: n-octanol/water

data not available

Auto-ignition temperature

data not available

Decomposition temperature

data not available

Viscosity

40 mPa.s

Kinematic viscosity

data not available

Density

1.07 g/cm³ at 20 °C

9.2. Other information

Explosive properties

The product does not have explosive properties.

Oxidising properties

It is not oxidising.

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SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

not available

Acute toxicity

Based on available data the classification criteria are not met.

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	2079 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	
Dermal	LD ₅₀	OECD 402	6300 mg/kg bw		Rabbit	
Inhalation	LC ₅₀	OECD 403	0.052 mg/m ³ of air	4 hours	Rat (<i>Rattus norvegicus</i>)	

Skin corrosion/irritation

Causes skin irritation.

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts				
Route of exposure	Result	Method	Exposure time	Species
Dermal	Irritating	OECD 404		

Serious eye damage/irritation

Causes serious eye irritation.

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts				
Route of exposure	Result	Method	Exposure time	Species
Eye	Serious eye damage	OECD 405		

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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Sensitization

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts

Route of exposure	Result	Method	Exposure time	Species	Sex
Skin	Not sensitizing	OECD 406			

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts

Result	Method	Exposure time	Specific target organ	Species	Sex
Negative	OECD 471				

Carcinogenicity

Based on available data the classification criteria are not met.

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts

Route of exposure	Parameter	Value	Result	Species	Sex
Oral	NOAEL	259 mg/kg bw/day	Not carcinogenic	Rat (<i>Rattus norvegicus</i>)	F
Dermal	NOAEL	157.7 mg/kg bw/day	Not carcinogenic	Mouse	F/M

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Repeated dose toxicity

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts

Route of exposure	Parameter	Result	Value	Exposure time	Species	Sex
Oral	NOAEL		259 mg/kg bw/day		Rat (<i>Rattus norvegicus</i>)	

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

not available

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Acute toxicity

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 202	>64 mg/l	6 hours	Daphnia (Daphnia magna)	
EC ₅₀	OECD 201	45 mg/l	48 hours	Algae (Pseudokirchneriella subcapitata)	

Chronic toxicity

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 211	6.7 mg/l	21 days	Daphnia (Daphnia magna)	

12.2. Persistence and degradability

Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended. The product is biodegradable.

Biodegradability

Hansanyl OS-A						
Parameter	Method	Value	Exposure time	Environment	Result	Source
					Easily biodegradable	

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts						
Parameter	Method	Value	Exposure time	Environment	Result	Source
	OECD 301D	80.6				EMPLA 1/2007

12.3. Bioaccumulative potential

Insignificant.

12.4. Mobility in soil

The product is soluble and mobile in water and soil. Contamination of water courses may occur in the event of rain.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Other adverse effects

not available

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

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Waste management legislation Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended. Waste type code

16 03 05* organic wastes containing hazardous substances
(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

- 14.1. UN number
not subject to transport regulations
- 14.2. UN proper shipping name
not relevant
- 14.3. Transport hazard class(es)
not relevant
- 14.4. Packing group
not relevant
- 14.5. Environmental hazards
Not harmful for the environment.
- 14.6. Special precautions for user
Reference in the Sections 4 to 8.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
not relevant

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- 15.2. Chemical safety assessment
CSA has been carried out.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

Guidelines for safe handling used in the safety data sheet

- P280 Wear protective gloves.
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

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Key to abbreviations and acronyms used in the safety data sheet

ADR	Agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EU	European Union
EuPCS	European Product Categorisation System
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.	Skin irritation
UN number	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 4.0 replaces the SDS version from 20 July 2021. Changes were made in sections 1, 2, 11, 13, 15 and 16.

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Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.