Safety Data Sheet

(in accordance to Commission Regulation No. 830/2015/EC)

Date of elaboration:	02.05.2017	
Date of revision:	05.12.2017	**Revision No:** 1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

IUPAC/ international chemical name	benzenesulfonic acid, 4-C10-13-sec-alkyl derivates
Trade name:	**DUBACID**
CAS:	85536-14-7
EINECS/ELINCS:	287-494-3
Registration number	**01-2119490234-40-0036**
1.2 Relevant identified uses of the substance or mixture:	**Manufacture:** manufacture of substance **Industrial use:** use in detergents
Uses advised against:	-

1.3 Details of the supplier of the safety data sheet

Importer:	**PTCHEM Sulfurex, s. r. o.**
Street, No.:	Štvrť kpt. Nálepku 751/1 Dubová
Zip Code:	976 97
City:	Nemecká
State:	Slovensko
Phone:	+421901724123
Fax:	-
E-mail:	mraz@sulfurex.sk
Emergency number:	**02/54774166** Národné toxikologické informačné centrum

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification in accordance with EP and Council Regulation 1272/2008 CLP

GHS05,07 Danger
Acute Tox. 4, H302
Skin Corr. 1B, H314
Aquatic Chronic 3, H412

2.2 Label elements

Symbol

Signal word Danger

Hazard statement

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement

P260 Do not breathe mist/vapours.
P264 Wash hands thoroughly after handling.
P270 Do no eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER/doctor if you feel unwell.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

	P501 Dispose of contents/container to the place of dangerous waste collection.
2.3 Other hazards	-

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	benzenesulfonic acid, 4-C10-13-sec-alkyl derivates	sulphuric acid *(impurity)*
Concentration	> 96 %	≤ 1,5 %
CAS	85536-14-7	7664-93-9
EC	287-494-3	231-639-5
Classification	GHS05,07 Acute Tox. 4 Skin Corr. 1B Aquatic Chronic 3	GHS05 Skin. Corr.1A
H-statements	H302 H314 H412	H314
Signal word	Danger	Danger
Occupational exposure limits	-	OEL (EU)
PBT/vPvB	-	*Specific limit:* *Eye Irrit. 2; H319: 5 % ≤ C < 15 %* *Skin Corr. 1A; H314: C ≥ 15 %* *Skin Irrit. 2; H315: 5 % ≤ C < 15 %*
Other	-	-

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures	**Inhalation**	Move victim to fresh air. If difficulties persists, contact doctor.
	Eyes	Wash eyes thoroughly with plenty of water within 15 – 20 minutes. Immediately contact doctor.
	Skin	Wash the skin with plenty of water. Remove contaminated clothing and shoes.
	Ingestion	**Do not induce vomiting.** Contact doctor and provide this safety data sheet and/or label.
4.2 Most important symptoms and effects, both acute and delayed	Harmful if swallowed. Causes severe skin burns and eye damage. Long-term or repeated exposure may cause necrosis. Inhalation of vapours causes irritation of respiratory system and mucosa. Oedema is possible. In case of ingestion may cause serious health problems. Possible symptoms are irritation of the digestive tract, nausea, vomiting, diarrhea and burns.	
4.3 Indication of any immediate medical attention and special treatment needed	In case of ingestion, skin or eye contact or if difficulties persists after prolonged contact or in case of inhalation of vapours contact doctor immediately.	

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media	**suitable**	powder, alcohol resistant foam, carbon dioxide, water fog
	not to be used	water in full jet
5.2 Special hazards arising from the substance or mixture	In case of fire hazardous decomposition products may form (carbon oxides, sulphur oxides).	
5.3 Advice for fire fighters	Use self-contained breathing apparatus. Wear protective clothing. Cool containers with water and/or remove it rapidly out of reach of fire. Corrosive acidic product (pH=0) – handle with containers with care.	

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	Avoid prolonged contact with skin and eyes. Wear personal protective equipment. Do not breath vapours. Ensure ventilation of closed rooms. Keep away sources of ignition. Avoid access of not protected and not informed persons.
Thermal hazard:	combustible
6.2 Environmental precautions	Avoid accumulation of product in sewers, water sources, groundwater and

	surface water. If this happens, inform regional institutions (acidic product).
6.3 Methods and material for containment and cleaning up	If possible, stop leak. Pick up with absorbent material (sand, universal absorbent, sawdust). Take for disposal in closed, labelled containers. Dispose according to legislation
6.4 Reference to other sections	personal protection: section 8 Information on pH: section 9, 12 disposal: section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling	Avoid contact with skin and eyes. Wear personal protective equipment. Take off contaminated clothing. Ensure ventilation of working areas. Do not breath vapours. Do not eat, drink or smoke when using this product. Observe hygienic and safety rules for working with chemicals. The workplace should be equipped by shower or other source of water. Close the packaging tightly again after use.
7.2 Conditions for safe storage, including any incompatibilities	Storage in original, tightly closed packaging in cool, dry, well ventilated room with small changes of temperature. Protect against weather. Do not storage together with incompatible materials (section 10). Recommended storage temperature: from + 30°C to+40°C.
7.3 Specific end use(s)	surfactant, production of detergents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	**Name**	**CAS**	**OEL (EU) mg/m^3**		**Nota**
			8 hours	**Short term**	
	Sulphuric acid (mist)	7664-93-9	0,05	-	-

DNEL workers	Inhalation (long-term, systemic effect): 12 mg/m^3 Inhalation (long-term, local effect): 12 mg/m^3 Skin (long-term, systemic effect): 170 mg/kg/day	
DNEL population	Inhalation (long-term, systemic effect): 3 mg/m^3 Inhalation (long-term, local effect): 3 mg/m^3 Skin (long-term, systemic effect): 185 mg/kg/day Oral (long-term, systemic effect): 850 µg/kg/day	
8.2 Exposure controls	**Hand protection**:	protective clothing protective gloves resistant to acids (EN 374)
	Eye protection	protective glasses (EN 166)
	Respiratory protection:	necessary in case high concentration of vapours over OEL value (mask, filter E2)
Environmental exposure control	sweet water: 287 µg/l marine water: 28,7 µg/l sweet water sediment: 287 µg/kg marine water sediment: 287 µg/kg intermittent leak: 16,7 µg/l sewage treatment: 3,43 mg/l	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Physical state	liquid (viscous)
Color	brown
Odour	irritable, pungent, sulphuric
Odour treshold	data not available
pH	0
Melting point/freezing point [°C]	- 20
Initial boiling point and boiling range [°C]	
Flash point [°C]	~ 205
Evaporation rate	data not available
Flammability	~ 214
Auto-ignition temperature [°C]	~ 385
Decomposition temperature [°C]	> 80
Lower explosive limit	data not available
Upper explosive limit	data not available
Oxidation properties	data not available

Vapour pressure [hPa]	1,06 x 10^{-8}
Vapour density	data not available
Relative density [g.cm^{-3}]	1,06
Solubility (water)	soluble
Solubility (solvents) [g.l^{-1}]	data not available
Partition coefficient: n-octanol/water	Log Pow = 2 (23°C)
Viscosity	Kinematic: 260 mm^2/s/50°C
9.2 Other information	-

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	data not available
10.2 Chemical stability	stable under proposed conditions of use and storage.
10.3 Possibility of hazardous reactions	data not available
10.4 Conditions to avoid	Temperatures over 80°C (thermal decomposition), flame
10.5 Incompatible materials	oxidisers, metals, strong alkali, water
10.6 Hazardous decomposition products	In case of fire: see section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity LC50/LD50	**Oral**	Harmful if swallowed. rat: 1470 mg/kg (OECD 401)
	Dermal	rat: 2000 mg/kg (OECD 401)
	Inhalation	Data not available
Skin corrosion/irritation		Causes severe skin burns.
Eye damage/irritation		Causes severe eye damage.
Sensitisation	**Skin**	Data not available
	Respiratory system	Data not available
Mutagenity		No evidence
Reproduction toxicity		No evidence
Carcinogenity		No evidence
STOT SE		Data not available
STOT RE		NOAEL (rat/9month. exposition): 40 - 85 mg/kg/day LOAEL (rat): 115 - 145 mg/ kg/day
Aspiration toxicity		Data not available

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity	Harmful to aquatic life with long lasting effects. LC_{50}, 96 hour, fish: 1,67 mg/l NOEC, 72 days, fish: 230 µg/l EC_{50}, 48 hour, invertebrates, 2,9 mg/l EC_{50}, 96 hour, algae, > 910 µg/l NOEC, 72 hour, algae: 2,4 mg/l
12.2 Persistence and degradability	rapid degradation 94% in 28 days (OECD 301A) DOC-Die Away test
12.3 Bioaccumulative potential	BCF: 87 l/kg (OECD 305 E) (Flow-through Fish Test)
12.4 Mobility in soil	63% , 4% sediment (Model EPI set USEPA 2000 b)
12.5 Results of PBT and vPvB assessment	Data not available
12.6 Other adverse effects	high acidity of this substance may cause acidity of environment

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:
Waste, contaminated absorbent material and contaminated packaging dispose in accordance with current regional legislation as dangerous waste. Do not dispose to the sewage treatment.
European Waste Cataloque Number: 20 01 29
Packaging: Contaminated packaging handle as product. Dispose in accordance with current regional legislation.
European Waste Cataloque Number: 15 01 10

SECTION 14. TRANSPORT INFORMATION

UN number	UN: 2586
UN proper shipping name	ALKYLSULPHONIC ACIDS, LIQUID or ARYLSULPHONIC ACIDS, LIQUID with not more than 5% free sulphuric acid
Transport hazard class (es)	8.C3
Packing group	III
Environmental hazards	no
Special precautions for user	Safety label: 8
Transport in bulk	Limited quantity: LQ7

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Regulation No 1907/2006 of EP and Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
Regulation No 1272/2008 of EP and Council on classification, labelling and packaging of substances and mixtures
Commission Regulation 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
Commission Directive 2000/39/EC on occupational exposure limits (OEL).

Restriction according to Commission Regulation No 552/2009 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards on Annex XVII: none
Candidate list substances (according to Annex XIV of EP and Council Regulation 1907/2006 REACH: none

15.2 Chemical safety assessment: assessment was performed, CSR from 2012 is part of registration dossier
Data in SDS (sections 9,11,12) are in accordance with CSR.

SECTION 16. OTHER INFORMATION

Revision: -
Wording of H-statements from section 3:
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.
Hazard classes:
Acute Tox.: acute toxicity
Skin. Corr.: corrosive to skin
STOT SE: specific target organ toxicity, single exposition
STOT RE: specific target organ toxicity, repeated exposition
Aquatic Chronic: chronic aquatic toxicity
Abbreviations:
OEL – Occupational exposure limits
PNEC – Predicted no effect concentration
NOEC – No effect concentration
NOAEL - No-observed-adverse-effect level
LOAEL - lowest-observed-adverse-effect level
Requirements for packaging in case of selling to the general public:
tactile warning
child-resistant fastenings