MARLON A 363

Version: *4*.03 **Revision Date 05.03.2018**

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

1.1 Product identifier

Trade name **Marlon A 363**

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

Use Industrial use
raw material for washing and cleaning agents
raw material for textile auxiliary agents
surface-active substance

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company SASOL Germany GmbH
Anckelmannsplatz 1
20537 Hamburg

Telephone: +49 40 63684-1000
Telefax: +49 40 63684-3700

Information (Product safety): Telephone: + 49 (0) 23 65 - 49 47 05
Telefax: + 49 (0) 23 65 - 49 92 40

E-mail address msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number + 49 (0) 23 65 - 49 22 32

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation Category 2	Causes skin irritation.
Serious eye damage Category 1	Causes serious eye damage.
Chronic aquatic toxicity Category 3	Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word Danger

Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Remarks on classification and labelling The preparation, as such, was examined for toxicological characteristics and then classified accordingly.

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture in the meaning of regulation (EC) 1907/2006.

COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

content: >= 50 - < 70 % **component type:** Active ingredient

EC-No.: 270-115-0 **Index-No.:** **CAS-No.:** 68411-30-3
REACH No.: 01-2119489428-22-xxxx
Substance name (REACH / CLP): Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Classification (Regulation (EC) No 1272/2008):	Acute Tox. 4 (Oral)	H302	
	Skin Irrit. 2	H315	
	Eye Dam. 1	H318	
	Aquatic Chronic	3	H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.

If inhaled Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a

physician.

In case of skin contact	Wash off with plenty of water.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Symptoms: No information available. Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Wear personal protective equipment. Do not get in eyes or mouth or on skin.
Advice on protection against fire and explosion	No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	No special storage conditions required.
Further information on storage conditions	Protect from frost, heat and sunlight.
Storage class (TRGS 510)	10-13: German Storage Class 10 to 13
Other data	The product is chemically stable.

7.3 Specific end use(s)

Specific use(s)	This information is not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

National occupational exposure limits

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts			
End Use	**Exposure routes**	**Value**	**Note**
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	85 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	6 mg/m3	

	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Oral, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	42,5 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	1,5 mg/m3	
	Oral, long-term exposure - systemic effects	0,425 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - local effects		Not relevant / not applicable

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts		
Environmental Compartment	**Value**	**Note**
Fresh water	0,268 mg/l	
Marine water	0,0268 mg/l	
intermittent release	0,0167 mg/l	
treatment plant	3,43 mg/l	
Fresh water sediment	8,1 mg/kg	based on dry weight
Marine sediment	8,1 mg/kg	based on dry weight
Soil	35 mg/kg	based on dry weight
food		Not relevant / not applicable

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a combined filter (e.g. A-P2 or ABEK-P2), in compliance with EN 141.

Hand protection The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts,

abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

gloves suitable for permanent contact:
Material: butyl-rubber
Break through time: >= 480 min
Layer thickness: >= 0,7 mm

gloves suitable for splash protection:
Material: Nitrile rubber/nitrile latex
Break through time: >= 30 min
Layer thickness: >= 0,4 mm

Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wear suitable gloves and eye/face protection.
Protective measures	Avoid contact with eyes. Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	solid; 20 °C; 1.013 hPa
Form	pasty
Colour	light yellow
Odour	mild
Odour Threshold	No valid method available
pH	7,5 - 8,5; 20 g/l; 20 °C
Melting point/range	Not applicable
Boiling point/boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not relevant / not applicable Justification: Solid
Flammability (solid, gas)	not auto-flammable
Lower explosion limit	Not applicable Justification: Solid
Upper explosion limit	Not applicable

	Justification: Solid
Vapour pressure	< 0,1 hPa; 20 °C
Relative vapour density	Not applicable, Justification: Solid
Density	ca.1,06 g/cm3; 20 °C
Water solubility	completely miscible
Partition coefficient: n-octanol/water	not applicable (mixture)
Ignition temperature	Not applicable
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	Not applicable, Justification: Solid
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

Additional advice	no data

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note	No decomposition if stored and applied as directed.

10.2 Chemical stability

Note	No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	None known.

10.4 Conditions to avoid

Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

10.5 Incompatible materials to avoid

Materials to avoid	Strong acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if stored and applied as directed.
Thermal decomposition	Stable under normal conditions. Hazardous decomposition products formed under fire conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	LD50 Rat: > 2.000 mg/kg The preparation, as such, was examined for toxicological characteristics and then classified accordingly. Test substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: The study is not necessary. Justification: Negligible or unlikely exposure pathways
Acute dermal toxicity	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 402 Symptoms: Local effects, Crusting (literature value) Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Rabbit: irritating; OECD Test Guideline 404 (literature value) Causes skin irritation.

Serious eye damage/eye irritation

Eye irritation	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Rabbit: Irreversible effects on the eye; OECD Test Guideline 405 (literature value) Causes serious eye damage.

Respiratory or skin sensitisation

Sensitisation	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: In vitro tests did not show mutagenic effects own test results/literature values
Genotoxicity in vivo	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: In vivo tests did not show mutagenic effects (literature value)
Remarks	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: This information is not available.

Reproductive toxicity

Reproductive toxicity	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Animal testing did not show any effects on fertility. (literature value) Category approach
RemarksReproductive toxicity	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Based on available data, the classification criteria are not met.
Teratogenicity	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Animal testing did not show any effects on foetal development. (literature value)
Remarks-Teratogenicity	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:

Based on available data, the classification criteria are not met.

STOT - single exposure

Remarks

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Remarks

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Rat; Oral; 28-day
NOAEL: 125 mg/kg (based on body weight and day)
LOAEL: 250 mg/kg (based on body weight and day)
Target Organs: Blood, Liver, Heart, Thymus
Symptoms: reduced body weight gain, Diarrhoea
(literature value)

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Rat; feeding study; 6 months
NOAEL: 40 mg/kg (based on body weight and day)
LOAEL: 115 mg/kg (based on body weight and day)
Target Organs: Blood, Kidney, caecum
Symptoms: reduced body weight gain, Diarrhoea
(literature value)
Category approach

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Rat; drinking water; 9 months
NOAEL: 85 mg/kg (based on body weight and day)
LOAEL: 145 mg/kg (based on body weight and day)
Target Organs: Blood
Symptoms: reduced body weight gain
(literature value)
Category approach

Aspiration hazard

Aspiration toxicity

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Not applicable

Toxicological information

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
Toxicokinetics
The substance is predicted to be bioavailable via the oral route.
The substance is metabolised and excreted.
The substance is poorly absorbed via skin.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
LC50 (96 h) Lepomis macrochirus (Bluegill sunfish): > 1 - 10 mg/l ; static test; US EPA 1975
(literature value)

Toxicity to fish - Chronic toxicity

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts:
NOEC (196 d) Pimephales promelas (fathead minnow): > 0,1 - 1 mg/l;

	reproduction rate; model ecosystem (literature value)
Toxicity to daphnia and other aquatic invertebrates	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l ; static test; OECD Test Guideline 202 (literature value)
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: NOEC (21 d) Daphnia magna (Water flea): > 1 - 10 mg/l; reproduction rate; flow-through test; OECD Test Guideline 211; (literature value)
	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: NOEC (32 d) Elimia: > 1 - 10 mg/l; mortality; model ecosystem; (literature value)
Toxicity to aquatic plants	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: EC50 (72 h) Pseudokirchneriella subcapitata (green algae): > 10 - 100 mg/l; cell number; (literature value)
	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: NOEC (28 d) Elodea canadensis: >= 4 mg/l; Growth rate; model ecosystem; (literature value)
	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: EC50 (7 d) Lemna minor (duckweed): > 1 - 10 mg/l; flow-through test; OECD Test Guideline 221; (literature value)
Toxicity to bacteria	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: No data available
Toxicity to soil dwelling organisms	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: EC10 (28 d) Aporroectodea caliginosa: 71,7 mg/kg; growth (literature value)
	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: EC10 Folsomia sp.: 107,6 mg/kg; reproduction rate (literature value)
Toxicity to terrestrial flora	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: growth; NOEC: 100 mg/kg; Sorghum bicolor (sorghum); OECD Test Guideline 208 (literature value)
	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: growth; EC10: 86 mg/kg; Brassica rapa; OECD Test Guideline 208 (literature value)
	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: growth; NOEC: 52 mg/kg; Nigella arvensis; OECD Test Guideline 208 (literature value)
Toxicity for other terrestrial non-mammalian fauna	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: No data available

12.2 Persistence and degradability

Biodegradability	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B

12.3 Bioaccumulative potential

Bioaccumulation	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Pimephales promelas (fathead minnow); 192 h; OECD Test Guideline 305 E (literature value) Does not significantly accumulate in organisms.

12.4 Mobility in soil

Mobility	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Adsorption/Soil/Sewage sludge Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

Results of PBT assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Results of PBT assessment	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Based on available data, the classification criteria are not met.

12.6 Other adverse effects

General advice	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: Harmful to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product	Can be incinerated, when in compliance with local regulations.
waste code of the European Union: EWC	The waste code must be determined in agreement with the regional waste disposal authority or company. A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 Proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.3 Transport hazard class

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods

IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type	2
Pollution category	Y
Remarks	MARPOL NAME: Alkyl (C11–C17) benzene sulphonic acid

SECTION 15: REGULATORY INFORMATION

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

Occupational restrictions Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable

Other regulations 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.

NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances	INV (CN)	listed (product or constituents are listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Safety datasheet sections which have been updated:

3. Composition/information on ingredients
6. Accidental release measures
7. Handling and storage
8. Exposure controls/personal protection
9. Physical and chemical properties
11. Toxicological information
12. Ecological information
14. Transport information

15. Regulatory information

Further information:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC…	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUAPC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC…	Lethal Concentration, ...%
LD…	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act
vPvB	very persistent, very bioaccumulative
WGK	Wassergefährdungsklasse

Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000339_EN_01.pdf