

## SAFETY DATA SHEET

acc. to Regulation (EC) No. 1907/2006 and (EU) No. 2015/830 for

<b>ALPHAMETHYLSTYRENE (AMS)</b>		DOMO Caproleuna GmbH Bau 3101 – Am Haupttor D-06237 Leuna	
prepared	2009-06-15		
updated	2020-03-24	Rev. 6	Page 1 of 17

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Chemical name:	<b>Alphamethylstyrene</b>
Trade name:	Alphamethylstyrene (AMS)
EINECS-Number:	202-705-0
REACH-Registration No.:	01-2119472426-35-0002

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

Raw material for the production of plastics and synthetic resins

Identified uses

- Manufacture, processing and distribution of substances and mixtures \*
- Use in laboratories
- Rubber production and processing
- Polymer manufacturing
- Polymer processing

## \*Examples for processing:

- use as intermediate
- use as monomer etc.
- use as solvent
- use for the manufacturing of resins

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

Company name:	DOMO Caproleuna GmbH Bau 3101 – Am Haupttor D-06237 Leuna
E-Mail:	msds@domo.org
National Contact:	Ullrich Naujoks
Information: (Monday-Friday, 7:00-16:00)	Operational Unit Cumol-Phenol-Cyclohexanone Tel. + 49 (0) 3461 / 43-2429 Fax + 49 (0) 3461 / 43-2226

**1.4 Emergency telephone number**

Europe	+44 1235 239670	[Carechem 24]
Middle East/Africa	+44 1235 239671	[Carechem 24]

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North/South America +1 215 207 0061 [Carechem 24]

East/South East Asia +65 3158 1195 [Carechem 24]

\*country specific emergency telephone numbers in section 16

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture (CLP)**

Hazard classes/categories	Hazard statement
Flammable liquids, category 3	H226
Danger of aspiration, category 1	H304
Skin sensitization, category 1	H317
Causes serious eye irritation, category 2	H319
Specific target organ toxicity (single exposure), category 3	H335
Reproduction toxicity, category 2	H361
Aquatic chronic, category 2	H411

Specific concentration limit (SCL): STOT SE H335 C  $\geq$  25%**2.2 Label elements**Labeling (CLP)

Pictogram:

Signal word: **Danger**Hazard Statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

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Safety precautions

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting etc. equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash moistened skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed outside the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use alcohol-resistant foam, spray water, CO <sub>2</sub> or powder for extinction.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with item 13.

**2.3 Other hazards**

Igniting mixtures may form under heating with air. PVapours are heavier than air and will spread at floor level.

Polymerisation in the presence of acids. At temperatures above 50 °C also polymerization reactions may occur despite the addition of inhibitors. Heat development leads to selfignition.

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**SECTION 3: Composition/information on ingredients****3.1 Substances**Chemical characterization (substance)

2-Phenylpropen; 2-Phenyl-1-propen; Isopropenyl benzene; beta-Phenyl propylene

Formula:  $C_9H_{10} = C_6H_5C(CH_3)=CH_2$

CAS-Number: 98-83-9

EIN ECS-Number: 202-705-0

RTECS-Number: WL5075300

EU-number: 601-027-00-6

REACH-Registration No.: 01-2119472426-35-0002

**SECTION 4: First-aid measures****4.1 Description of first-aid measures**

In all cases of doubt, or when symptoms persist, seek medical advice.

If victim is at risk of losing consciousness, position and transport on their side. Do not allow victim to become chilled. Keep victim warm.

After inhalation

Move victim to fresh air, put at rest and loosen restrictive clothing.

In case of irregular breathing or respiratory arrest provide artificial respiration. Seek medical attention.

In case of skin contact

Remove wetted clothing immediately. Rinse affected skin areas immediately under flowing (like warm) water, or, if available, rinse/wash skin with "Previn solution". Provide medical treatment in any case.

After eye contact

Immediately flush eyes with plenty of flowing water for 10 to 20 minutes holding eyelids apart.

In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing

In no case cause vomiting; controlled rinsing of stomach by medical expert.

Rinse mouth; spit out liquid; have the injured sipping plenty of water.

Immobilize the injured; protect him/her from hypothermia.

In case of spontaneous vomiting, keep the head of the injured deep in prone position or at least lateral position in order to prevent vomit from penetrating the trachea.

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

Burning eyes and skin. Irritation of nose, throat, lung. Cough, nausea, dizziness, unconsciousness.

In case of prolonged exposure: Possible danger of damage to liver and kidneys.

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

Treat symptomatically. On irritation of the respiratory system use an aerosol dispenser and treat with 5 doses of dexamethasone aerosol (e.g. Auxilison, Thomae) every 10 minutes until symptoms cease. In case of intense exposure check liver and renal function.

Practical experience

Applying Previn (Fa. Prevor) as a first-aid medicine as quickly as possible to the untreated contaminated parts of the skin or eyes will result in a significant alleviation of the symptoms (concerning pain, reddening, formation of blisters). There wasn't any damage to the skin/formation of scars in the further course of healing.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**Suitable extinguishing media

Water spray jet (do not use a full jet), extinguishing powder, CO<sub>2</sub>, fight large fires by means of alcohol-resistant foam or spray water.

Extinguishing media which must not be used for safety reasons

Foam that is not alcohol-resistant. Do not use water jets (risk of dispersion).  
High power water jet.

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

Flammable. Vapours are heavier than air.

In case of fire may be liberated: Carbon monoxide and carbon dioxide.

**5.3 Advice for firefighters**Special protective equipment for firefighters

Prior to entering the dangerous zone, apply a tightly closing chemical suit and respirators which are independent of the ambient air.

Additional information

Cool endangered containers with water spray and, if possible, remove from danger zone.

Heating causes rise in pressure with risk of bursting.

Contaminated fire-fighting water must be collected separately. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Do not inhale vapours, avoid skin and eye contact, provide for sufficient ventilation, keep at the wind side, and keep off ignition sources, clear endangered zone. Carry out repair work at leaks in protective clothing, wear protective gloves and goggles. Seal deep spaces. Clear affected area.

Explosion risks due to leaking product. Remove all sources of ignition. Close all lower level rooms.

**6.2 Environmental precautions**

Prevent from entering the sewerage system, soil, ground water or surface waters. Danger of explosion. In case of release, notify competent authorities.

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

Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions.

**6.4 Reference to other sections**

Not applicable

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**Advices on safe handling

Provide adequate ventilation, and local exhaust as needed.

Handle substance within a predominantly closed system provided with extract ventilation.

Provide room air exhaust at ground level. Do not use air pressure to deliver.

Avoid the formation of aerosol. Use only explosion-proof equipment.

Pass exhaust gas or waste air into the atmosphere only via suitable cleansing systems

Do not breathe vapours. Avoid contact with skin and eyes. Isolate the danger zone.

Prevent from entering the sewerage system, soil, ground water or surface waters.

Precautions against fire and explosion

Keep away from sources of ignition - No smoking. Do not weld.

Take precautionary measures against static discharges.

Containers and pipes should be thoroughly cleaned and purged with an inert gas prior to handling.

Protect against heat /sun rays. Danger of polymerization > 50 °C.

Heat development leads to selfignition.

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**7.2 Conditions for safe storage, including any incompatibilities**Requirements for storerooms and containers

Requirements of storage rooms and containers: Use stainless steel, steel or aluminium containers. Do not use plastic containers for storage. Provide for proper room ventilation. Use exhaustion system, if necessary. Keep containers closed tightly. Provide for measures against electro-static charges. The storage rooms must be cool and ventilated properly. Close containers tightly.

Hints on joint storage

Storage together with medicaments, foodstuffs and fodder is prohibited. Do not store together with fire promoting, self-igniting materials. Keep away from materials which may cause dangerous reactions (oxidizing, spontaneously flammable substances and flammable solid substances, acids). If possible, store well below the flash point.

Further details

Product is not intended for consumer use.

Keep locked and only accessible for trained staff. If possible, store under nitrogen.

Store in tightly sealed containers to avoid the formation of peroxides.

Alphamethylstyrene tends to polymerization which may be catalyzed by heat, pressure, light, peroxides as well as acids. Even if inhibitors are added, there may be polymerization reactions at temperatures above 50 °C.

Storage class: 3 = Flammable liquid materials

**7.3 Specific end uses**

Raw material for the production of plastics and synthetic resins

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

All exposure relevant information (human health and environment) is summarised in annexes to this safety data sheet.

**8.1 Control parameters**Workplace exposure limits

Type (Country)	Limit value
IOELV: TWA (EU)	246 mg/m <sup>3</sup> (50 ppm)
IOELV: STEL (EU)	492 mg/m <sup>3</sup> (100 ppm)
WPLV (D)	250 mg/m <sup>3</sup> (50 ppm)
WEL-TWA (GB)	246 mg/m <sup>3</sup> (50 ppm)
WEL-STEL (GB)	491 mg/m <sup>3</sup> (100 ppm)

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DNEL/PNEC - Parameters

<b>DNEL</b>	<b>Exposure path</b>	<b>Exposure frequency</b>	<b>Critical component</b>
Workers			
38 mg/kg bw/d	Dermal	Long term	AMS
50 ppm (246 mg/m <sup>3</sup> )	Inhalative	Long term	

<b>Exposure path</b>	<b>PNEC</b>
Water (fresh water)	0,008 mg/l
Water (marine water)	0,0008 mg/l
Water (intermittent release)	0,01645 mg/l
Sediment (fresh water)	0,583 mg/kg dwt
Sediment (marine water)	0,0583 mg/kg dwt
Soil	0,112 mg/kg dwt
Sewage treatment plant	66,15 mg/l

**8.2 Exposure controls**

Make sure there is sufficient air exchange and / or that working rooms are air suctioned.

Occupational exposure controls

All information for relevant exposure scenarios including operational conditions and risk management measures are listed in 'Annex I: Worker Exposure and Risk Assessment'

Suitable technical control devices

*General protection and hygiene measures*

Do not breathe vapors'. Avoid contact with skin, eyes, and clothing. Immediately remove any contaminated clothing, shoes or stockings. Wash hands before breaks and after work. When using do not eat, drink or smoke. Have eye wash bottle or eye rinse ready at work place.

*Respiratory protection*

Respiratory protection must be worn whenever the WEL levels have been exceeded.  
Use filter type A

*Hand protection*

Protective gloves according to EN 374.  
Glove material: PVA (Polyvinyl alcohol).



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Breakthrough time: 360 min.

Glove material: Fluororubber (Viton).

Breakthrough time: 480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

*Eye protection*

Tightly sealed safety glasses according to EN 166.

*Body protection*

Wear suitable protective clothing. Rubber coat and trousers. Safety shoes according to EN 345-347. In case of handling larger quantities: flame-retardant protective clothing, antistatic.

Environmental exposure controls

All information for relevant exposure scenarios including operational conditions and risk management measures are listed in 'Annex II: Environmental Exposure and Risk Assessment' and 'Annex III: Environmental Exposure Calculation Tool'.

Waste air is to be released into the atmosphere only via suitable separators/filter.

**SECTION 9: Physical and chemical properties**

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

Appearance and odour

Physical state:	liquid
Colour:	colourless
Odour:	aromatic, unpleasant
Odour threshold:	0.4 mg/ml (0,082 ppm)

Physical properties

	Unit	Value	Method	Remark
Boiling temperature/boiling range	°C	approx. 165		
Melting point/melting range	°C	-23.2 °C		
Flash point/flash point range	°C	40 °C (c.c.)		
Lower Explosive Limit	Vol.-%	0.9		
Upper Explosive Limit	%	6.6		IMDG 2009: 6.7 %
Ignition temperature	°C			not defined
Oxidizing properties				no
Vapour pressure	hPa	2.53 hPa		at 20°C
		15 hPa		at 50°C
Autoflammability	°C	445		

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Chemical properties

	Unit	Value	Method	Remark
pH value		5-6		at 20 °C, 500 g/l
Density	g/ml	0.91		at 20°C
Water solubility	g/l	0.1		at 25°C
Solubility	soluble in organic solvents (diethyl ether, benzene, chloroform, ethanol)			
Dyn. viscosity	mPa*s	0.94		at 20°C

**9.2 Other information**

Molecular weight: 118.18 g/mol  
 Relative vapour density at 20 °C (air=1): 4.08  
 Partition coefficient n-octanol/water: 3.48 log P(o/w)

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No dangerous reactions are known.  
 Polymerization can occur under certain conditions.

**10.2 Chemical stability**

Flammable. Vapours are heavier than air. The product is stable when used and stored for the purpose intended in the presence of a stabilizer. Thus the product contains 10-15 ppm tert. Butylbrenzcatechin (TBK).

**10.3 Possibility of hazardous reactions**

Polymerisation in the presence of acids. Polymerization along with heat production. Heat development leads to selfignition.  
 Due to the high vapour pressure, bursting danger to containers/vessels when temperature increases.

**10.4 Conditions to avoid**

Pressure (danger of polymerization).  
 Do not expose to temperatures exceeding the flash point.

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**10.5 Incompatible materials**

Acids, peroxides, metal salts, organic metal compounds and oxidizing materials

**10.6 Hazardous decomposition products**

In case of fire may be liberated: traces of incompletely burned carbon compounds, carbon monoxide and carbon dioxide.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**Acute toxicity

Toxicity	Effective dose	Species	Method	Remark
oral	LD <sub>50</sub> 4900 mg/kg bw	Rat		
dermal	LD <sub>50</sub> 14560 mg/kg bw	Rabbit		
by inhalation	LD <sub>50</sub> 22,85 mg/l/6h	Rat		

Specific symptoms

Burning eyes and skin. Irritation of nose, throat, lung. Cough, nausea, dizziness, unconsciousness. In case of prolonged exposure: Possible danger of damage to liver and kidneys.

After inhalation:

Irritating to respiratory system. Causes tears.  
Concentration > 600 ppm: Leads to severe irritation of the mucous membranes. In case of prolonged exposure: Possible danger of damage to liver and kidneys.

In case of skin contact:

Rabbit: Not an irritant (Draize).

After eye contact:

Rabbit: Not an irritant.

Human experience: Eye and nasal irritation in human volunteers exposed to concentrations higher than STEL and OEL.

Skin corrosion/irritation

May cause an allergic skin reaction.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

not sensitising.

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

Human experience: May cause allergies in rare instances.

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Germ cell mutagenicity

Bacterial mutagenicity: negative (OECD 471 & 472).  
 Chromosomal aberrations mammalian cells in-vitro: negative (OECD 473).  
 Gene-mutations mammalian cells in-vitro: negative (OECD 476).  
 Sister chromatid exchange mammalian cells: negative (OECD 474).  
 Micronucleus test: in-vivo (Mouse): negative (OECD 474).  
 Based on available data, the classification criteria are not met.

Carcinogenicity

At long term exposure Rat/Mouse: negative (OECD 451).  
 Based on available data, the classification criteria are not met.

Reproduction toxicity

Repr. 2, H361: Suspected of damaging fertility or the unborn child.

STOT SE

STOT SE 3, H335: May cause respiratory irritation.

STOT RE

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

Danger of aspiration

May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Acute ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

<b>Aquatic toxicity</b>	<b>Species</b>	<b>Effective dose</b>	<b>Exposure time</b>
Fish toxicity	Brachydanio rerio (Zebra-fish)	LC50 2,97 mg/l	96 h
Daphnia toxicity	Daphnia magna	EC50 1,645 mg/l	48 h
		NOEC 0,401 mg/l	21d
Algae toxicity	Desmodesmus subspicatus	EC50 11,441	72 h
		NOEC 2,26 mg/l	72 h

Water Hazard Class: 2 = hazardous to water

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**12.2 Persistence and degradability**Abiotic degradation*Atmospheric compartment*

Direct photolysis is to be expected.

Indirect photodegradation by reaction with OH radicals.

Half-life time approx. 7,3 h.

*Compartment water*

Stable at pH value 4, 7 and 9 and 25 °C. Hydrolysis not to be expected.

Biodegradation

56 %/21d (OECD 301 D /EU C.4-E).

Not readily biodegradable (according to OECD criteria).

Available OECD-Tests indicate rapid biodegradability according to CLP criteria.

56 %/28d in activated sludge (OECD 302 C).

Inherently biodegradable.

Evidence for rapid biodegradability.

Effects in sewage plants

Bacterial toxicity: EC 10 activated sludge: 661,5 mg/L/3h

**12.3 Bioaccumulative potential**

Bioaccumulative potential low.

Secondary poisoning via the food chain is unlikely to occur.

Bioconcentration factor (BCF)

12 - 140 at 25 °C (OECD 305 C).

**12.4 Mobility in soil***Environmental distribution/adsorption/desorption soil*

Adsorption coefficient (Koc): 692 at 20 °C.

The soil sorption coefficient indicates a high sorption potential onto soil organic matter.

*Volatility rate*

H = 258 - 439 Pa \* m<sup>3</sup>/mol at 25 °C.

The product is highly volatile.

**12.5 Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6 Other adverse effects**General information

Do not allow to enter into ground-water, surface water or drains.

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Avoid spills and leaks. Very small amounts contaminate drinking water.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Waste key number

Waste key number 070108: Other still bottoms and reaction residues

Recommendation

Incinerate according to applicable local, state and federal regulations.





Discharge into the environment must be avoided. Do not dispose together with domestic refuse.

Contaminated packaging

*Recommendation*

Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

**SECTION 14: Transport information**

	<b>ADR/RID</b>	<b>IMDG</b>
<b>14.1 UN Number</b>	2303	2303
<b>14.2 UN proper shipping name</b>	ISOPROPENYLBENZENE	ISOPROPENYLBENZENE
<b>14.3 Transport hazard classes</b>	3 	3 
<b>14.4 Packaging group</b>	III	III
<b>14.5 Environmental hazards</b>	Marine pollutant 	Marine pollutant 
<b>14.6 Special Precautions for the user</b>	See remark	no

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<b>Additional information</b>	Hazard identification number: 30	EmS: F-E, S-D
	Tunnel restriction code: D/E	Lowest flash point: 40 °C c.c.

Remark

For transport in road tankers or rail tank cars: The use of PTFE-seals is recommended.

IATA/ADN: Not checked

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

Not applicable

**SECTION 15: Regulatory information**

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

National regulations - Germany

Observe employment restrictions concerning young persons.  
Observe employment restrictions for expectant or nursing mothers.

*StörfallV*

Annexe 1, according to substance list column 1

1.2.5.1 P5a Flammable liquids		1.3.2 E2 Aquatic chronic, category 2	
Column 4	Column 5	Column 4	Column 5
10.000 kg	50.000 kg	200.000 kg	500.000 kg

*Storage class*

3 (Flammable liquid materials)

*Water Hazard Class (acc. to AwSV)*

WHC 2 = obviously hazardous to water

*TA Air*

No. 5.2.5 organic materials

**15.2 Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

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**SECTION 16: Other information****Wording of H and P phrases (number and complete text)**

See item 2

**Training hints**

Training according to TRGS 555.

**Recommended restriction(s) for use**

Use in cosmetic substances (soap, shampoo) is allowed under restriction only according to the cosmetics regulations.

**Additional information**

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision.

It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Further information (sources)

DGUV113-001, TRGS 727, TRGS 900, TRGS 903.

**Data sources**

REACH Registration Dossier Alkylstyrene. P&amp;D-REACH Consortium, 2010.

**Emergency telephone numbers (country specific)**

<b>Global/english speaking countries</b>	<b>+44 1865 407333</b>
<b>Country</b>	<b>Emergency telephone number</b>
France	+33 1 72 11 00 03
Germany	+49 89 220 61012 0800 000 7801 (toll-free, access from Germany only)
Spain	+34 91 114 2520
Italy	+39 02 3604 2884
Netherlands	+31 10 713 8195
Turkey	+90 212 375 5231
Norway	+47 2103 4452
Greece	+30 21 1198 3182
Portugal	+351 30880 4750
Denmark	+45 8988 2286
Sweden	+46 8 566 42573
Poland	+48 22 307 3690
Czech Republic	+420 228 882 830
Finland	+358 9 7479 0199
Bahrain/Middle East	+973 1619 8321



## SAFETY DATA SHEET

acc. to Regulation (EC) No. 1907/2006 and (EU) No. 2015/830 for

### ALPHAMETHYLSTYRENE (AMS)

DOMO Caproleuna GmbH  
Bau 3101 – Am Haupttor  
D-06237 Leuna

prepared

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Africa/South Africa	+27 21 300 2732
United States	+1 866 928 0789 (toll-free)
Canada	+1 800 579 7421 (toll-free)
United States and Canada	+1 202 464 2554
Mexico	+52 55 5004 8763
Brazil	+55 11 3197 5891
Chile	+56 2 2582 9336
Colombia	+57 1 508 7337
Argentina	+54 11 5984 3690
Sri Lanka	+65 3158 1195
Taiwan	+886 2 8793 3212
Japan	+81 3 4578 9341
Indonesia	007 803 011 0293 (toll-free; access only from Indonesia)
Malaysia	+60 3 6207 4347
Thailand	001 800 120 666 751 (toll-free; access only from Thailand)
India	+65 3158 1198 000 800 100 7479 (toll-free; access only from India)
Pakistan	+65 3158 1329
Bangladesh	+65 3158 1200
Philippines	+63 2 8231 2149
Vietnam	+84 28 4458 2388
South Korea	+82 2 3479 8401
Singapore	+65 3165 2217
Australia	+61 2 8014 4558 18000 74234 (toll-free; access only from Australia)
New Zealand	+64 9 929 1483 0800 446 881 (toll-free; access only from New Zealand)

### General revision

Section 1.4/section 16: Update of emergency telephone numbers (regional and country specific)