#### **SAFETY DATA SHEET**

Safety data Sheet according to (EC No. 1907/2006 (REACH)

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

#### 1.1. Product identifier:

Formula 2

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

Card or liquid to clean audio and photographic equipment.

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

AM Denmark A/S

1.1. Skudehavnsvej Phone: +45 - 49 14 22 00 DK-2150 Nordhavn Fax.: +45 - 49 14 11 81

Denmark

(e-mail): am@am-denmark.com

# 1.4. Emergency telephone:

+45 82 12 12 12 (Poison Line (Denmark) – 24-hour service)

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture:

Flammable and irritating liquid.

Napkins wetted with flammable and irritating liquid is not to be classified.

CLP (1272/2008): Flam. Lig. 3;H226 Eye Irrit. 2;H319 STOT SE 3;H336

#### 2.2. Label elements:





#### **WARNING**

H226: Flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233: Keep container tightly closed.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Consumer use, add the following safety sentences:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P501: Dispose of contents/container according to national legislation.

2.3. Other hazards: None known.

PBT/vPvB: The ingredients are not considered PBT/vPvB according to criteria in Annex XIII.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures: % w/w Name CAS REACH reg.no. Classification EC-no. Index-no. Propan-2-ol 67-63-0 200-661-7 603-117-00-0 -25-50 Flam. Liq. 2;H225 Eve Irrit. 2;H319 **STOT SE 3;H336** < 0.5 Sodium lauryl sulphate 151-21-3 EC: Xi:R38-41 205-788-1 -CLP: Skin Irrit.: 2H315 Eye Dam. 1;H318

Wording of hazard statements – see section 16.

# **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures:

Inhalation: Remove to fresh air. Keep at rest. In case of discomfort: Seek medical advice.

Skin contact: Remove contaminated clothing and wash with soap and water. If irritation persists: Seek

medical advice.

Eye contact: Flush with water or physiological salt water, holding eye lids open, remember to remove

contact lenses, if any.

If irritation persists: Seek medical advice.

Ingestion: Rinse mouth and drink plenty of water. Keep at rest. In case of discomfort: Seek medical

advice

Burns: Flush with water until pain ceases.

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

Causes eye irritation. Prolonged or frequent contact can cause eczema and inflammation of the skin as a result of degreasing.

May cause slight irritation of lungs (spraying) and dry and cracked skin.

Prolonged inhalation of vapours may result in inflammation of the nose and gastrointestinal tract and damage on liver,

kidneys, blood or central nervous system.

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

Show this safety data sheet to a physician or emergency ward.

# **SECTION 5: Fire-fighting measures**

#### 5.1. Extinguishing media:

Carbon dioxide, dry chemical, sand, foam or water fog. Do not use water jet.

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

Do not breathe smoke fumes. In case of fire (decomposition) it emits toxic fumes such as carbon oxides.

#### 5.3. Advice for firefighters:

When extinguishing surrounding fires use breathing apparatus with an independent source of air.

# **SECTION 6: Accidental release measures**

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

Use personal protective equipment - see section 8. Ventilate area. Remove sources of ignition.

#### 6.2. Environmental precautions:

Do not empty into drains - see section 12. Inform appropriate authorities in accordance with local regulations.

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

Take up with absorbent material (e.g. general-purpose binder) and place in marked container for disposal. Clean with water.

Further handling of spillage - see section 13.

# 6.4. Reference to other sections:

See above.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling:

Avoid breathing vapors. Provide sufficient ventilation. Avoid contact with skin, eyes and clothing. Change contaminated clothes. Wash hands and contaminated areas with water and mild soap after use.

The employer shall assess the working conditions and, if there is any risk to the safety or health and any effects on the pregnancy or breastfeeding of workers, take the necessary measures to adjust the working conditions (Directive 92/85/EEC).

Flammable, do not use near fire or sparks. Do not smoke.

#### **SAFETY DATA SHEET**

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

Store in a well-closed original container and in a flammable liquid storage area. Dry, cool and separated from oxidizing agents. Keep out of the reach of children. Keep out of direct sunlight.

# 7.3. Specific end use(s):

See section 1.

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

# 8.1. Control parameters: 8-hour TWA 15-min STEL

Occupational exposure limits (EH40/2007): Propan-2-ol 400 ppm = 999 mg/m3 500 ppm = 1250 mg/m3 DNEL/PNEC: No CSR.

# 8.2. Exposure controls:

Appropriate engineering controls: Provide efficient ventilation.

Personal protective equipment:

Respiratory protection: Normally not necessary by adequate ventilation or short-term use. In

case of working in not adequate ventilated areas, use an approved mask (EN140) with a gas filter: AX. The filter has a limited lifetime and

must be changed. Read the instruction.

Skin protection: By direct contact with skin or long-term use (>1 hour): Wear protective

gloves (EN374) of e.g. nitrile or butyl. Breakthrough time: App. 3 hours

(nitrile and butyl).

Eye protection: Use safety goggles (EN166) when there is a risk of eye contact.

Environmental exposure controls: None particular.

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

# 9.1. Information on basic physical and chemical properties:

Appearance: Liquid in different colours
Odour: Characteristic alcohol
Odour threshold: Not determined

pH:

Melting point/freezing point (°C):

Not determined

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Evaporation rate:

Flammability (solid, gas):

Not determined
Not relevant

Upper/lower flammability or explosive limits (vol-%): 3.5 - 19

Vapour pressure:

Relative density:

Not determined

Not determined

Solubility: Completely soluble in water Partition coefficient: n-octanol/water: Not determined

Auto-ignition temperature (°C):

Relative density (g/ml):

Viscosity:

Not relevant

< 1 @ 20°C

Not determined

9.2. Other information: None relevant

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity:

No available information.

# 10.2. Chemical stability:

Stable under normal conditions (see section 7).

#### 10.3. Possibility of hazardous reactions:

Vapours can be ignited by a spark, a hot surface or a glow. Vapours are heavier than air.

#### 10.4. Conditions to avoid:

Formation of sparks and glows. Excessive heating and sources of ignition.

# 10.5. Incompatible materials:

May react with strong oxidizing agents.

# 10.6. Hazardous decomposition products:

When heated to high temperatures (decomposition) it emits toxic fumes such as carbon oxides.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects:

Hazard class	Data	Test	Reference
Acute toxicity:			
Inhalation	LC50 (rat) = 46,5 mg/L/4h (Propan-2-ol)	No info	Merch
Dermal	LD50 (rabbit) = 12800 mg/kg (Propan-2-ol)	No info	RTECS
Oral	LD50 (rat) = 4570 mg/kg (Propan-2-ol)	No info	ECHA diss.
Corrosion/irritation:	Eye irritation, rabbit (Propan-2-ol)	Draize	IUCLID
	Severe irritation of eyes, rabbit (Sodium lauryl sulphate)	No info	Supplier
	Moderate irritation of skin, rabbit (Sodium lauryl sulphate)	No info	Supplier
Sensitization:	No skin sensitization, guinea pig (Propan-2-ol)	Buehler	IUCLID
CMR:	Data for mutagenicity is unambiguous (Propan-2-ol)	Multiple	IUCLID

Information on likely routes of exposure: Skin, lungs and gastrointestinal tract.

Symptoms:

Inhalation: Vapours may irritate the upper respiratory tract and cause discomfort, headache and

dizziness. Inhalation of particles may cause irritation of the respiratory tract.

Skin: May cause irritation and degrease skin. Eyes: Cause irritation with redness and pain.

Ingestion: May irritate the mucous membranes in mouth, throat and stomach. May cause irritation of

the gastrointestinal tract with nausea.

Chronic effects: Prolonged or frequent exposure to vapours of volatile organic compounds may result in

damage on liver, kidneys, blood or central nervous system.

# **SECTION 12: Ecological information**

# 12.1. Toxicity:

Aquatic	Data	Test (Media)	Reference
Fish	LC50 (Pimephales promelas, 96h) > 1000 mg/l (Propan-2-ol)	No info (FW)	UCLID
	LC50 (Fish, 96 h) = 1-10 mg/l (Sodium Lauryl Sulphate)	No info (FW)	CEFIC
Crustacean	EC50 (Daphnia magna, 48h) > 1000 mg/l (Propan-2-ol)	No info (FW)	UCLID
Algae	No applicable/available data	-	-

#### 12.2. Persistence and degradability:

Propan-2-ol is readily biodegradable (OECD 301). The surfactants in the product pass the ultimate biodegrability test according to EC regulation for surfactants in detergents.

Sodium lauryl sulphate is rapidly degradable (>60% BOD, 28d (OECD 301D)).

#### 12.3. Bioaccumulative potential:

Propan-2-ol: Log Kow < 1 – No significant bioaccumulation is expected.

Sodium lauryl sulphate: Log Kow < 3 – no significant bioaccumulation is expected.

#### 12.4. Mobility in soil:

Propan-2-ol: Koc < 10 – Very large mobility expected in soil.

#### 12.5. Results of PBT and vPvB assessment:

The ingredients are not considered PBT/vPvB according to criteria in Annex XIII.

# 12.6. Other adverse effects:

None known.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods:

Disposal should be according to local, state or national legislation. Dispose through authority facilities or pass to a chemical disposal company. The mixture is to be considered as hazardous waste.

EWC-Code: 20 01 13

Napkins evaporate after use and can be disposed with the household garbage.

If packages containing wet napkins must be disposed:

EWC-code: 20 03 01

# **SECTION 14: Transport information**

14.1. UN-no.: 1987

14.2. UN proper shipping name: ALKOHOLS, N.O.S. (Propan-2-ol)

14.3. Transport hazard class(es): 3

14.4. Packing group: III

14.5. Environmental hazards: No.

14.6. Special precautions for user: Warning: Flammable liquids Kemler: 33 EMS: F-E,S-D

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant.

Napkins are not dangerous goods (ADR/RID).

# **SECTION 15: Regulatory information**

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

Must not be used by persons under 18 years of age.

15.2. Chemical Safety Assessment:

No CSR.

# **SECTION 16: Other information**

#### R-phrases and hazard statement mentioned in section 2 and 3:

R 38: Irritating to skin.

R 41: Risk of serious damage to eyes.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

#### **Abbreviations:**

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC50 = Effect Concentration 50 %

ECB = European Chemicals Bureau.

ECHA = European Chemicals Agency

FW = Fresh Water

LC50 = Lethal Concentration 50 %

LD50 = Lethal Dose 50 %

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

#### Litterature:

ECHA diss. = REACH Registreringsdossier from ECHA's homepage.

IUCLID = International Uniform ChemicaL Database Information (International kemikaliedatabase med information om

kemiske stoffer)

Merck (Safety Data Sheet)

RTECS = Register of Toxic Effects of Chemical Substances (database over toksiske effekter af kemiske stoffer)

#### Training advice:

No special training is required. However, the user should be well instructed in the execution of the task, be familiar with

this Safety Data Sheet and have normal training in the use of personal protective equipment.

## Changes since the previous edition:

All sections, according to 453/2010

Data prepared by: Altox a/s – Tonsbakken 16-18 – DK-2740 Skovlunde - Phone +45 - 38 34 77 98/ PW - Quality control: PH Adapted by AM Denmark - SK. Revised by AM Denmark a/s