

# SAFETY DATA SHEET

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

#### 1.1. Product identifier

#### **Trade name**

545 - Remover Degreaser Product no.

#### 545

**REACH** registration number

Not applicable

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

## Relevant identified uses of the substance or mixture Cleaning agent

## **Uses advised against**

The full text of any mentioned and identified use categories are given in section 16 **1.3. Details of the supplier of the safety data sheet** 

## **Company and address**

HBC System Smarttool Production ApS Hobrovej 961-963 9530 Stövring Denmark tel:+45 70 22 70 70

## Contact person

Vibeke Jørgensen

## E-mail

info@hbc-system.com SDS date 2016-06-20

#### **SDS Version**

2.0

## 1.4. Emergency telephone number

Use your national or local emergency number See section 4 "First aid measures"

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Flam. Liq. 3; H226 Eye Dam. 1; H318 STOT SE 3; H336

See full text of H-phrases in section 2.2. 2.2. Label elements

## Hazard pictogram(s)





## Hazard statement(s)

Flammable liquid and vapour. (H226) Causes serious eye damage. (H318) May cause drowsiness or dizziness. (H336)

	General Prevention	- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210).
Safety statement(s)	Response	Wear eye protection/protective gloves. (P280). Immediately call a POISON CENTER/doctor. (P310). IF IN EYES: Rinse cautiously with water for several minutes. Remove
		contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).
	Storage	Store in a well-ventilated place. Keep cool. (P403+P235).
	Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

#### propan-1-ol n-propanol

#### 2.3. Other hazards

This product contains an organic solvent. Repeated exposure to organic solvents can result in damage to the nervous system and inner organs, such as the liver and kidneys.

## **Additional labelling**

## **Additional warnings**

## voc

VOC-MAX: 270 g/l, MAXIMUM VOC CONTENT (B/a2): 200 g/l.

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

#### 3.1/3.2. Substances/Mixtures

NAME: IDENTIFICATION NOS.: CONTENT: CLP CLASSIFICATION:	propan-1-ol n-propanol CAS-no: 71-23-8 EC-no: 200-746-9 Index-no: 603-003-00-0 15-25% Flam. Liq. 2, STOT SE 3, Eye Dam. 1 H225, H318, H336
NOTE:	S
NAME: IDENTIFICATION NOS.: CONTENT: CLP CLASSIFICATION: NOTE:	1-methoxy-2-propanol monopropylene glycol methyl ether CAS-no: 107-98-2 EC-no: 203-539-1 REACH-no: 01-2119457435-35 Index-no: 603-064-00-3 10-15% Flam. Liq. 3, STOT SE 3 H226, H336 S

(\*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available. S = Organic solvent

#### Other informations

Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 4,5336 - 6,8004

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

## 4.1. Description of first aid measures

## **General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

## Inhalation

Get the person into fresh air and stay with them.

#### Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be



washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. Eye contact

Remove contact lenses. Flush eyes with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Contact a doctor at once.

## Ingestion

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

## **Burns**

Rinse with water until the pain stops and continue for 30 minutes.

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

Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system. Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

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

IF exposed or concerned:

Get immediate medical advice/attention.

## Information to medics

Bring this safety data sheet.

#### **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

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

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

## 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

## **SECTION 6: Accidental release measures**

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

Avoid inhalation of vapours from waste material. Avoid direct contact with spilled substances. Stores that have not ignited must be cooled by water mist. Where possible, remove flammable materials. Make sure there is sufficient ventilation.

## 6.2. Environmental precautions

No specific requirements.

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

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

## 6.4. Reference to other sections

See section on "Disposal considerations" with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

## **SECTION 7: Handling and storage**

7.1. Precautions for safe handling



See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

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

Always store in containers of the same material as the original. Must be stored in a cool and ventilated area, away from possible sources of combustion.

#### Storage temperature

No data available.

#### 7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

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

#### 8.1. Control parameters

#### OEL

1-methoxy-2-propanol monopropylene glycol methyl ether (EH40/2005) Long-term exposure limit (8-hour TWA reference period): 100 ppm | 375 mg/m3 Short-term exposure limit (15-minute reference period): 150 ppm | 560 mg/m3 Comments: Sk (Sk = Can be absorbed through skin. )

### **DNEL / PNEC**

DNEL ( 1-methoxy-2-propanol monopropylene glycol methyl ether ): 369 mg/m3 Exposure: Inhalation

Duration of Exposure: Long term - Systemic effects - Workers

DNEL ( 1-methoxy-2-propanol monopropylene glycol methyl ether ): 43,9 mg/m3 Exposure: Inhalation

Duration of Exposure: Long term - Systemic effects - General population

DNEL ( 1-methoxy-2-propanol monopropylene glycol methyl ether ): 553,5 mg/m3 Exposure: Inhalation Duration of Exposure: Short term – Local effects - Workers

Duration of Exposure. Short term – Eocar effects - Workers

DNEL (1-methoxy-2-propanol monopropylene glycol methyl ether): 50,6 mg/kg Exposure: Dermal Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-methoxy-2-propanol monopropylene glycol methyl ether ): 18,1 mg/kg Exposure: Dermal Duration of Exposure: Long term – Systemic effects - General population

Duration of Exposure. Long term – Systemic enects - General population

DNEL ( 1-methoxy-2-propanol monopropylene glycol methyl ether ): 3,3 mg/kg Exposure: Oral Duration of Exposure: Long term – Systemic effects - General population

PNEC (1-methoxy-2-propanol monopropylene glycol methyl ether ): 100 mg/L Exposure: Intermittent release

PNEC (1-methoxy-2-propanol monopropylene glycol methyl ether ): 5,2 mg/kg Exposure: Marine water sediment

PNEC (1-methoxy-2-propanol monopropylene glycol methyl ether ): 5,49 mg/kg Exposure: Soil

PNEC (1-methoxy-2-propanol monopropylene glycol methyl ether): 10 mg/L Exposure: Freshwater

PNEC ( 1-methoxy-2-propanol monopropylene glycol methyl ether ): 1 mg/L Exposure: Marine water

#### 8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis. General recommendations

Observe general occupational hygiene.

#### Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied. **Exposure limits** 



Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

## Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

#### **Hygiene measures**

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

## Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible collect spillage during work.

Individual protection measures, such as personal protective equipment



## Generally

Use only CE marked protective equipment.

## **Respiratory Equipment**

If the ventilation at the work place is not sufficient, use a half or whole mask with an appropriate filter or an air-supplied respiratory protector. The choice depends on the concrete work situation and how long you will be using the product.

## Skin protection

Special work clothing should be used. When working with this product for a long period of time, use a protective suit.

## Hand protection

Recommended: Nitrile rubber. : NA

#### **Eye protection**

Use safety glasses with a side shield.

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

9.1. Information on bas	ic physical a	nd chemical properties			
Form	Colour	Odour	pН	Viscosity	Density (g/cm3)
Liquid	Colourless	Faint	-	-	-
Phase changes					
Melting point (°C)		Boiling point (°C)		Vapour press	sure (mm Hg)
-		37			
Data on fire and exp	losion hazar	ds			
Flashpoint (°C)		Ignition (°C)		Self ignition (	°C)
39		-		78	,
Explosion limits (Vol %)		Oxidizing properties			
-	, i	-			
Solubility					
Solubility in water		n-octanol/water coefficient			
Soluble		-			
9.2. Other information					
Solubility in fat		Additional information			
-		N/A			

## **SECTION 10: Stability and reactivity**

- 10.1. Reactivity
  - No data available
- 10.2. Chemical stability

The product is stable under the conditions, noted in the section on "Handling and storage".

10.3. Possibility of hazardous reactions

- No special
- 10.4. Conditions to avoid



Avoid static electricity. Do not expose to heat (e.g. sunlight), because it can lead to excess pressure. **10.5. Incompatible materials** 

Strong acids, strong bases, strong oxidizing agents, and strong reductants agents.

## **10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity				
Substance	Species	Test	Route of exposure	Result
1-methoxy-2-propanol monopro	Rat	LD50	Inhalation	> 7000 ppm
1-methoxy-2-propanol monopro	Rabbit	LD50	Oral	4016 mg/kg
1-methoxy-2-propanol monopro	Rabbit	LD50		1200 mg/kg
1-methoxy-2-propanol monopro	Rat Rat	LD50 LD50	Oral	> 2000 mg/kg
propan-1-ol n-propanol propan-1-ol n-propanol	Rabbit	LD50	Olai	1870 mg/kg 4049 g/kg
propan-1-ol n-propanol	Rat	LC50	Inhalation	>9800 mg/m3
Skin corrosion/irritation				,
No data available.				
Serious eye damage/irritation				
Causes serious eye damage.				
Respiratory or skin sensitisation	n			
No data available.				
Germ cell mutagenicity				
No data available.				
Carcinogenicity				
No data available.				
Reproductive toxicity				
No data available.				
STOT-single exposure				
May cause drowsiness or dizzi	ness.			
STOT-repeated exposure				
No data available.				
Aspiration hazard				
No data available.				
Long term effects				
Neurotoxic effect: This product	t contains organi	ic solvents, which	can have an effect on the new	vous system.
Symptoms of neurotoxicity can	be: loss of appe	etite, headache, di	zziness, whistling in the ears,	tingling
sensations in the skin, sensitivi	ty to the cold, cr	amps, difficulty in	concentrating, tiredness, etc.	Repeated

Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

## **SECTION 12: Ecological information**

**Substance** 

Substance	Species	Test	Test duration	Result
1-methoxy-2-propanol monopro	Daphnia	LC50	48 t	23300 mgL >4500 mg/l /
1-methoxy-2-propanol monopro	Fish	LC50	96 t	ferskvand
propan-1-ol n-propanol	Algae	EC50	72 t	3200000
propan-1-ol n-propanol	Algae	EC50	96 t	til5600000 ug
propan-1-ol n-propanol	Crustacean	LC50	48 t	4480000
propan-1-ol n-propanol	Daphnia	LC50	48 t	2500000
propan-1-ol n-propanol	Fish	LC50	96 t	2950000
				3800000

Test

545 - Remover Degreaser

Result

6/8

**Biodegradability** 



BFC

No data available.

- 12.3. Bioaccumulative potential Substance Potential bioaccumulation LogPow No data available.
  12.4. Mobility in soil propan-1-ol n-propanol : Log Koc= 0,276375, Calculated from LogPow (High mobility potential.).
  12.5. Results of PBT and vPvB assessment
- No data available 12.6. Other adverse effects No special

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

Waste EWC code 080111

Specific labelling

## **Contaminated packing**

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

#### **SECTION 14: Transport information**

This product is covered by the conventions on dangerous goods.

## 14.1 – 14.4

4	ADR/RID	
	14.1. UN number	1263
	14.2. UN proper shipping name	
	14.3. Transport hazard class(es)	3
	14.4. Packing group	III
	Notes	•
	Tunnel restriction code	-
I	MDG	
	UN-no.	1263
	Proper Shipping Name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
	Class	-
	PG*	III
	EmS	F-E, S-E
	MP**	Yes
	Hazardous constituent	-
	UN-no.	1263
	Proper Shipping Name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
	Class	-
	PG*	III

#### 14.5. Environmental hazards

This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability.

## 14.6. Special precautions for user

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant



#### **SECTION 15: Regulatory information**

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

#### **Restrictions for application**

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC. Demands for specific education

#### **Additional information**

#### Sources

COUNCIL DIRECTIVE 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

IDirective 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.

EC Regulation 1272/2008 (CLP).

EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

## **SECTION 16: Other information**

#### Full text of H-phrases as mentioned in section 3

H225 - Highly flammable liquid and vapour.

H226 - Flammable liquid and vapour.

H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness.

#### The full text of identified uses as mentioned in section 1

-

## Other symbols mentioned in section 2

## Other

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

## The safety data sheet is validated by kbb

Date of last essential change (First cipher in SDS version) 2016-06-20

Date of last minor change (Last cipher in SDS version)

2016-06-20

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