sonneborn

REFINED PRODUCTS

MATERIAL SAFETY DATA SHEET (In accordance with Regulations (EC) no. 453/2010)

PETRONATE® HL

Date: January 2016
S.REACH.NLD.EN

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

1.1.Product Identifier

Product name	PETRONATE® HL
Chemical Name	sodium petroleum sulfonate
Other means of identification	Not Available
CAS number	68608-26-4
EC number	271-781-5
REACH registration number	01-2119527859-22-0000

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

Product Category Chemical	PC24 Lubricants, greases, release products PC25 Metal working fluids PC17 Hydraulic Fluids
Product Category Consumer	PC24 Lubricants, greases, release products
Sectors of Use	SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
Relevant identified uses	This oil soluble Sodium Sulfonate is used in soluble oils and semi-synthetic fluids to improve emulsion properties
Uses advised against	Any use except those identified

1.3.Details of the supplier of the safety data sheet

Registered company name	SONNEBORN REFINED PRODUCTS B.V.
Address	Mainhavenweg 6 - 1043 AL Amsterdam - The Netherlands
Telephone	+31-20-6117475
Fax	+31-20-6111170
Website	www.sonneborn.com
Email	QEHS@Sonneborn.com

1.4.Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	+31-20-6117475

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Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

2.1.Classification of the substance or mixture

Considered a dangerous substance according to Reg. (EC) No 1272/2008 and its amendments. Not classified as Dangerous Goods for transport purposes.

Classification according to regulation (EC) No 1272/2008 [CLP] [1]	Eye Irritation Category 2
Legend:	*1. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI*

2.2. Label elements

CLP label elements	
SIGNAL WORD	**WARNING**

Hazard statement(s)

H319	Causes serious eye irritation

Supplementary statement(s)

Precautionary statement(s) Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

Precautionary statement(s) Storage

Precautionary statement(s) Disposal

2.3. Other hazards

	May produce discomfort of the eyes*.

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1.Substances

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.68608-26-4 2.271-781-5 3.Not Available 4.01-2119527859-22-0000	50-65	sodium petroleum sulfonate	Eye Irritation Category 2; H319 [1]

Legend: *1. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI 4. Classification drawn from C&L*

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3.2.Mixtures

See 'Information on ingredients' in section 3.1

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures

General	‣ Immediately give a glass of water. ‣ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. ‣ If fumes, aerosols or combustion products are inhaled remove from contaminated area. ‣ Other measures are usually unnecessary. If this product comes in contact with eyes: ‣ Wash out immediately with water. ‣ If irritation continues, seek medical attention. ‣ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. If skin or hair contact occurs: ‣ Flush skin and hair with running water (and soap if available). ‣ Seek medical attention in event of irritation.
Eye Contact	If this product comes in contact with eyes: ‣ Wash out immediately with water. ‣ If irritation continues, seek medical attention. ‣ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: ‣ Flush skin and hair with running water (and soap if available). ‣ Seek medical attention in event of irritation.
Inhalation	‣ If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other ‣ measures are usually unnecessary.
Ingestion	‣ Immediately give a glass of water. ‣ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

	See Section 11

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

Treat symptomatically.

SECTION 5 FIREFIGHTING MEASURES

5.1. Extinguishing media

	‣ Foam. ‣ Dry chemical powder. ‣ BCF (where regulations permit). ‣ Carbon dioxide. ‣ Water spray or fog - Large fires only.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	‣ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

5.3. Advice for firefighters

Fire Fighting	
Fire/Explosion Hazard	‣ Combustible. ‣ Slight fire hazard when exposed to heat or flame. ‣ Heating may cause expansion or decomposition leading to violent rupture of containers. ‣ On combustion, may emit toxic fumes of carbon monoxide (CO). ‣ May emit acrid smoke. ‣ Mists containing combustible materials may be explosive. Combustion products include:, carbon dioxide (CO_2), sulfur oxides (SOx), other pyrolysis products typical of burning organic material

SECTION 6 ACCIDENTAL RELEASE MEASURES

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6.1. Personal precautions, protective equipment and emergency procedures

	See section 8

6.2. Environmental precautions

	See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	**Collect the isolated product and other contaminated material in tanks or containers that are appropriate for**
	recuperation or disposing in a safe matter

6.4. Reference to other sections

	Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling	‣ Avoid all personal contact, including inhalation. ‣ Wear protective clothing when risk of exposure occurs. ‣ Use in a well-ventilated area. ‣ ‣ . ‣ Avoid smoking, naked lights or ignition sources. ‣ Avoid contact with incompatible materials. When handling, **DO NOT** eat, drink or smoke. ‣ Keep containers securely sealed when not in use. ‣ Avoid physical damage to containers. ‣ Always wash hands with soap and water after handling. ‣ . ‣ Use good occupational work practice. ‣ Observe manufacturer's storage and handling recommendations contained within this MSDS. ‣ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
Fire and explosion protection	See section 5
Other information	‣ Store in original containers. ‣ Keep containers securely sealed. ‣ No smoking, naked lights or ignition sources. ‣ Store in a cool, dry, well-ventilated area. ‣ Store away from incompatible materials and foodstuff containers. ‣ Protect containers against physical damage and check regularly for leaks. ‣ .

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	‣ Glass container is suitable for laboratory quantities ‣ Metal can or drum ‣ Packaging as recommended by manufacturer. ‣ Check all containers are clearly labelled and free from leaks.

7.3. Specific end use(s)

See section 1.2

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL): SEE SAFETY CHEMICAL ASSESSMENT

PREDICTED NO EFFECT LEVEL (PNEC): NOT APPLICABLE

OCCUPATIONAL EXPOSURE LIMITS (OEL)

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INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
PETRONATE	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
sodium petroleum Sulfonate	Not Available	Not Available

8.2. Exposure controls

All emissions must be treated by appropriate engineering controls as for example: before emissions to air, depuration of gaseous effluents to eliminate contaminants

8.2.1. Appropriate engineering controls	
8.2.2. Personal protection	
Eye and face protection	‣ Safety glasses with side shields Chemical goggles. ‣
Skin protection	Protective clothing to EN 368 standard as minimum
Hands/feet protection	Hand protection to EN 374 standard as minimum
Body protection	Protective clothing to EN 368 standard as minimum
Other protection	
Thermal hazards	Not Available

Respiratory protection

Not Available

8.2.3. Environmental exposure controls

See section 12

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Solid, produced in the presence of liquid mineral oil solvent, which changes the physical state of the substance from solid to liquid	**Relative density (Water = 1)**	> 1,00 at 16°C
Odour	Mild petroleum	**Partition coefficient n-octanol / water**	Not Available *) - 9.2
Odour threshold	Not Available	**Auto-ignition temperature (°C)**	Not Available *) - 9.2
pH (as supplied)	Not Available	**Decomposition temperature**	Not Available *) - 9.2
Melting point / freezing point (°C)	Not Available	**Viscosity (cSt)**	>30 mm2/s at 40°C
Initial boiling point and boiling range (°C)	>100°C	**Molecular weight (g/mol)**	Not Available *) - 9.2
Flash point (°C)	>180°C – ASTM D 92	**Taste**	Not Available *) - 9.2
Evaporation rate	Not Available *) - 9.2	**Explosive properties**	Not Available *) - 9.2
Flammability	Not Available *) - 9.2	**Oxidising properties**	Not Available *) - 9.2
Upper Explosive Limit (%)	Not Available *) - 9.2	**Surface Tension (dyn/cm or mN/m)**	Not Available *) - 9.2

Lower Explosive Limit (%)	Not Available *) - 9.2	**Volatile Component (%vol)**	<5
Vapour pressure (kPa)	Not Available *) - 9.2	**Gas group**	Not Available *) - 9.2
Solubility in water (g/L)	may emulsify	**pH as a solution (1%)**	Not Available *) - 9.2
Vapour density (Air = 1)	>1	**VOC g/L**	Not Available *) - 9.2

9.2. Other information - *)

	The study is considered to be scientifically unjustified. The registered substance is produced, supplied and marketed in the presence of a liquid mineral oil solvent. Removal of this solvent is expected to cause a change in the equilibrium of the chemical structure of the alkyrated benzene sulfonates resulting in a degradation of the chemical structure to a structure that is not representative of the substance being placed on the market in the EU. It is, in consequence, not possible to undertake any study of the registered substance in the absence of the solvent. This is further compounded by the fact that the presence of the mineral oil solvent changes the physical state of the registered substance from solid to liquid and will therefore have a considerable effect on the result of any test conducted on the substance in solvent. It is therefore considered justifiable to omit any study

SECTION 10 STABILITY AND REACTIVITY

10.1.Reactivity	See section 7.2
10.2.Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhaled	Not normally a hazard due to non-volatile nature of product
Ingestion	The material has **NOT** been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.
Skin Contact	The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. The material is unlikely to produce an irritant dermatitis as described in EC Directives . Anionic surfactants can cause skin redness and pain, as well as a rash. Cracking, scaling and blistering can occur. Irritation and skin reactions are possible with sensitive skin Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	Direct eye contact with some anionic surfactants in high concentration can cause severe damage to the cornea. Low concentrations can cause discomfort, excess blood flow, and corneal clouding and swelling. Recovery may take several days.
PETRONATE	**TOXICITY** / **IRRITATION** Not Available / Not Available
sodium petroleum sulfonate	**TOXICITY** / **IRRITATION** Not Available / Not Available

Legend: *1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS.*

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Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

Acute Toxicity	⊘	**Carcinogenicity**	⊘
Skin Irritation/Corrosion	⊘	**Reproductivity**	⊘
Serious Eye Damage/Irritation	✔	**STOT - Single Exposure**	⊘
Respiratory or Skin sensitisation	⊘	**STOT - Repeated Exposure**	⊘
Mutagenicity	⊘	**Aspiration Hazard**	⊘

Legend: ✔ *– Data required to make classification available*
✖ *– Data available but does not fill the criteria for classification*
⊘ *– Data Not Available to make classification*

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

12.5.Results of PBT and vPvB assessment

	P	B	T
Relevant available data	Not Available	Not Available	Not Available
PBT and vPvB Criteria fulfilled?	Not Available	Not Available	Not Available

12.6. Other adverse effects

No data available

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: ▸ Reduction ▸ Reuse ▸ Recycling ▸ Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. ▸ **DO NOT** allow wash water from cleaning or process equipment to enter drains. ▸ It may be necessary to collect all wash water for treatment before disposal. ▸ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. ▸ Where in doubt contact the responsible authority. ▸ Recycle wherever possible or consult manufacturer for recycling options. ▸ Consult State Land Waste Authority for disposal.

Continued...

	‣ Bury or incinerate residue at an approved site. ‣ Recycle containers if possible, or dispose of in an authorised landfill.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 TRANSPORT INFORMATION

Labels Required

Marine Pollutant	NO

Land transport (Not Applicable): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable
14.2. Packing group	Not Applicable
14.3. UN proper shipping name	Not Applicable
14.4. Environmental hazard	No relevant data
14.5. Transport hazard class(es)	Class: Not Applicable Subrisk: Not Applicable
14.6. Special precautions for user	Hazard identification (Kemler): Not Applicable Classification code: Not Applicable Special provisions: Not Applicable Explosive Limit and Limited Quantity Index: Not Applicable ERAP Index: Not Applicable Limited quantity: Not Applicable

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	sodium petroleum sulfonate	Y

SECTION 15 REGULATORY INFORMATION

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

SODIUM PETROLEUM SULFONATE(68608-26-4*) - 9.2 IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : 67/548/EEC, 1999/45/EC, 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments as well as the following British legislation: - The Control of Substances Hazardous to Health Regulations (COSHH) 2002 - COSHH Essentials - The Management of Health and Safety at Work Regulations 1999

15.2. Chemical safety assessment

Continued...

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (sodium petroleum sulfonate)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	*Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)*

SECTION 16 OTHER INFORMATION

Full text Risk and Hazard codes

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.
A list of reference resources used to assist the committee may be found at:
www.chemwatch.net

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.