

**NIELSEN****SAFETY DATA SHEET
TRANSPORT 4000 PLUS****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** TRANSPORT 4000 PLUS**Internal identification** L578**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Cleaning agent.**Uses advised against** Use only for intended applications.**1.3. Details of the supplier of the safety data sheet****Supplier** NIELSEN CHEMICALS
RAWDON ROAD
MOIRA
SWADLINCOTE
DERBYSHIRE
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info@nielsenchemicals.com**1.4. Emergency telephone number****Emergency telephone** +44 (0) 777 8505 330 (24 hrs). +44 (0) 1865 407333 (24 hrs). MEDICAL AND ENVIRONMENTAL EMERGENCIES ONLY.**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (EC 1272/2008)****Physical hazards** Met. Corr. 1 - H290**Health hazards** Skin Corr. 1C - H314 Eye Dam. 1 - H318**Environmental hazards** Not Classified**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements** H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

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Precautionary statements

P280 Wear protective clothing, gloves, eye and face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
 Rinse skin with water or shower.
 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 in accordance with national regulations.

Contains SODIUM HYDROXIDE

Detergent labelling < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% cationic surfactants, < 5% amphoteric surfactants

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	5-10%
CAS number: 64-02-8	EC number: 200-573-9
	REACH registration number: 01-2119486762-27-XXXX
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Eye Dam. 1 - H318	
STOT RE 2 - H373	
SODIUM HYDROXIDE	1-5%
CAS number: 1310-73-2	EC number: 215-185-5
	REACH registration number: 01-2119457892-27
Classification	
Met. Corr. 1 - H290	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
TETRASODIUM 1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONATE	1-5%
CAS number: 3794-83-0	EC number: 223-267-7
Classification	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	

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ALKYL ALCOHOL ETHOXYLATE	1-5%
CAS number: 68439-45-2	
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318	
DISODIUM METASILICATE	<1%
CAS number: 6834-92-0	EC number: 229-912-9
	REACH registration number: 01-2119449811-37-XXXX
Classification Met. Corr. 1 - H290 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	
COCO AMIDO PROPYL BETAINE	<1%
CAS number: 61789-40-0	EC number: 931-296-8
	REACH registration number: 01-2119488533-30-xxxx
Classification Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention immediately.
Skin contact	Rinse immediately with plenty of water. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention.

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

General information	Chemical burns must be treated by a physician.
Inhalation	Coughing, chest tightness, feeling of chest pressure.
Ingestion	May cause chemical burns in mouth and throat.
Skin contact	Causes burns.
Eye contact	Causes serious eye damage.

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

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Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion products may include the following substances:
Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Contain and absorb spillage with sand, earth or other non-combustible material. Absorb spillage to prevent material damage. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear protective clothing, gloves, eye and face protection. Avoid contact with skin, eyes and clothing. Avoid breathing spray. Avoid contact with contaminated tools and objects. Avoid spilling. Avoid release to the environment. Do not eat, drink or smoke when using this product. Do not reuse empty containers. Do not use in paint spraying equipment. Do not empty into drains. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep only in the original container. Store at temperatures between 4°C and 40°C.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

DNEL	<p>Workers - Inhalation; Long term systemic effects, local effects: 1.5 mg/m³</p> <p>Workers - Inhalation; Short term systemic effects, local effects: 3 mg/m³</p> <p>Consumer - Inhalation; Long term local effects, systemic effects: 0.6 mg/m³</p> <p>Consumer - Inhalation; Short term local effects, systemic effects: 1.2 mg/m³</p> <p>Consumer - Oral; Long term systemic effects, local effects: 25 mg/m³</p>
PNEC	<p>- Fresh water; 2.2 mg/l</p> <p>- Marine water; 0.22 mg/l</p> <p>- Intermittent release; 1.2 mg/l</p> <p>- STP; 43 mg/l</p> <p>- Soil; 0.72 mg/kg</p>

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL	<p>Industry - Inhalation; Short term local effects: 1 mg/m³</p> <p>Industry - Inhalation; Long term local effects: 1 mg/m³</p> <p>Consumer - Inhalation; Short term local effects: 1 mg/m³</p>
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TETRASODIUM 1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONATE (CAS: 3794-83-0)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 16.9 mg/m³</p> <p>Workers - Inhalation; Long term local effects: 10 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 48 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 4.2 mg/m³</p> <p>General population - Inhalation; Long term local effects: 10 mg/m³</p> <p>General population - Inhalation; Short term local effects: 10 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 24 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 2.1 mg/kg/day</p>
PNEC	<p>- Fresh water; 0.096 mg/l</p> <p>- Marine water; 0.01 mg/l</p> <p>- STP; 58 mg/l</p> <p>- Sediment (Freshwater); 42 mg/kg</p> <p>- Sediment (Marinewater); 4.2 mg/kg</p> <p>- Soil; 14 mg/kg</p>

DISODIUM METASILICATE (CAS: 6834-92-0)

DNEL	<p>Industry - Dermal; Long term : 1.49 mg/kg/day</p> <p>Industry - Inhalation; Long term : 6.22 mg/m³</p> <p>Consumer - Dermal; Long term : 0.74 mg/kg/day</p> <p>Consumer - Inhalation; Long term : 1.55 mg/m³</p> <p>Consumer - Oral; Long term : 0.74</p>
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COCO AMIDO PROPYL BETAINE (CAS: 61789-40-0)

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DNEL	Industry - Dermal; Long term systemic effects: 12.5 Consumer - Dermal; Long term systemic effects: 7.5 mg/kg/day Industry - Inhalation; Long term systemic effects: 44 mg/m ³
PNEC	- Fresh water; 0.0135 mg/l - STP; 300 mg/l - Soil; 0.8 mg/kg - Sediment (Marinewater); 0.1 mg/kg - Sediment (Freshwater); 1 mg/kg - Marine water; 0.00135 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. For work of short duration or where a high degree of manual dexterity is needed, use protective gloves made of: Neoprene. Nitrile rubber. Rubber (natural, latex).

Hygiene measures

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless to pale yellow.
Odour	Mild.
pH	pH (concentrated solution): >13.0
Relative density	1.1 @ 25°C

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Solubility(ies) Completely soluble in water.

9.2. Other information

Other information Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Reactions with the following materials may generate heat: Acids.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid Acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 17,842.54

Acute toxicity - inhalation

ATE inhalation (gases ppm) 140,618.67

ATE inhalation (vapours mg/l) 343.73

ATE inhalation (dusts/mists mg/l) 46.87

Skin corrosion/irritation

Skin corrosion/irritation Read-across data. Corrosive to skin.

Extreme pH ≥ 11.5 Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Corrosive to skin. Corrosivity to eyes is assumed. No testing is needed.

Inhalation Coughing, chest tightness, feeling of chest pressure.

Ingestion May cause chemical burns in mouth and throat. Gastrointestinal symptoms, including upset stomach.

Skin contact Causes burns.

Eye contact Causes serious eye damage.

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Toxicological information on ingredients.

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,780.0

Species Rat

ATE oral (mg/kg) 1,780.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀)

ATE inhalation (gases
ppm) 11,250.0

ATE inhalation (vapours
mg/l) 27.5

ATE inhalation
(dusts/mists mg/l) 3.75

SODIUM HYDROXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 2,000.0

Species Rat

ATE oral (mg/kg)

TETRASODIUM 1-HYDROXYETHYLIDENE-1,1-DIPHOSPHONATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 2,850.0

Species Rat

ATE oral (mg/kg) 2,850.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,000.0

Species Rabbit

ATE dermal (mg/kg) 5,000.0

ALKYL ALCOHOL ETHOXYLATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,200.0

Species Rat

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Notes (oral LD₅₀)

ATE oral (mg/kg) 1,200.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1

Species Rat

ATE dermal (mg/kg) 2,000.1

DISODIUM METASILICATE

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

Species Rat

ATE dermal (mg/kg) 5,000.0

COCO AMIDO PROPYL BETAINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish Not determined.

Ecological information on ingredients.

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 100 mg/l, *Lepomis macrochirus* (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >100 mg/l, *Daphnia magna*

SODIUM HYDROXIDE

Acute aquatic toxicity

Acute toxicity - fish LC50, 48 hours: ~ 145 mg/l, *Poecilia reticulata* (Guppy)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: ~ 76 mg/l, *Daphnia magna*
REACH dossier information.

DISODIUM METASILICATE

Acute aquatic toxicity

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Acute toxicity - fish	LC50, 96 hours: 180 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1700 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 207 mg/l, Scenedesmus subspicatus

COCO AMIDO PROPYL BETAINE

Acute aquatic toxicity

Acute toxicity - fish	LC50, 96 hours: 1.11 mg/l, Pimephales promelas (Fat-head Minnow) LC50, 96 hours: 1.1 mg/l, Cyprinodon variegatus (Sheepshead minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1.9 mg/l, Freshwater invertebrates EC ₅₀ , : 0.3 mg/l, Freshwater invertebrates EC ₅₀ , 48 hours: 21.5 mg/l mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 48 hours: 30.0 mg/l, Marinewater algae

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

Special Provisions note

14.1. UN number

UN No. (ADR/RID)	1760
UN No. (IMDG)	1760
UN No. (ICAO)	1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE LIQUID, N.O.S. (sodium hydroxide)

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Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (sodium hydroxide)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (sodium hydroxide)

14.3. Transport hazard class(es)

ADR/RID class 8

IMDG class 8

ICAO class/division 8

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

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

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.
Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ATE: Acute Toxicity Estimate. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. EC ₅₀ : 50% of maximal Effective Concentration. PNEC: Predicted No Effect Concentration. IMDG: International Maritime Dangerous Goods. LC ₅₀ : Lethal Concentration to 50 % of a test population. LD ₅₀ : Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. UN: United Nations. vPvB: Very Persistent and Very Bioaccumulative.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	22/12/2017
Revision	4.2
Supersedes date	02/07/2015
SDS number	27544
Hazard statements in full	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs (Respiratory system, lungs) through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.