

Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier Product Name • PCS 605 Photo Mask Cleaning Solution 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s)

· Cleaning glass products

1.3 Details of the supplier of the safety data sheet

Manufacturer

Transene Company, Inc.

10 Electronics Avenue Danvers MA 01923 United States www.transene.com

Telephone (General) • 978 777 7860

1.4 Emergency telephone number

Manufacturer

• 1-800-424-9300 - CHEMTREC in US

Section 2: Hazards Identification

EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

2.1 Classification of the substance or mixture

2.2 Label Elements

CLP

CLP

Hazard statements • No label element(s) required

· Not classified

2.3 Other Hazards

CLP

 According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.

UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2.1 Classification of the substance or mixture

UN GHS

Not classified

2.2 Label elements

UN GHS

Hazard statements • No label element(s) required

2.3 Other hazards

UN GHS

 According to the Globally Harmonized System for Classification and Labeling (GHS) this product is not considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

Not classified

2.2 Label elements

OSHA HCS 2012

Hazard statements • No label element(s) required

2.3 Other hazards

OSHA HCS 2012

• This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Section 3 - Composition/Information on Ingredients

3.1 Substances

Material does not meet the criteria of a substance. 3.2

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Sodium hydroxide	CAS:1310-73-2 EC Number:215-185- 5 EU Index:011-002- 00-6	0.48% TO 0.52%	NDA	UN GHS: Met. Corr. 1; Skin Corr. 1B; Eye Dam. 1 EU CLP: Annex VI, Table 3.1: Skin Corr. 1A, H314 OSHA HCS 2012: Met. Corr. 1; Skin Corr. 1B; Eye Dam. 1	NDA

See Section 16 for full text of H -statements.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation • Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial

respiration if victim is not breathing.

Skin In case of contact with substance, immediately flush skin with running water for at

least 20 minutes. If irritation develops and persists, get medical attention.

• In case of contact with substance, immediately flush eyes with running water for at Eye

least 20 minutes. If eye irritation persists: Get medical advice/attention.

• Do NOT induce vomiting. Obtain medical attention immediately if ingested.

4.2 Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician · All treatments should be based on observed signs and symptoms of distress in the

patient. Consideration should be given to the possibility that overexposure to

materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • LARGE FIRE: Water spray, fog or regular foam.

SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing

Media

No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazards

Ingestion

No data available

Hazardous Combustion

Products

 During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

5.3 Advice for firefighters

Wear positive pressure self-contained breathing apparatus (SCBA).

Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is

possible.

Move containers from fire area if you can do it without risk.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

· Ventilate enclosed areas. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE)

Emergency Procedures

Keep unauthorized personnel away. Stay upwind.

6.2 Environmental precautions

Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

· Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Dike to collect large liquid spills.

6.4 Reference to other sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

Use only with adequate ventilation. Use good safety and industrial hygiene practices.
 Use appropriate Personal Protective Equipment (PPE) Avoid ingestion and inhalation. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

• Keep container tightly closed. Store in a cool, dry, well-ventilated place. Do not freeze. Store at 70°F. Keep away from incompatible materials. **7.3 Specific end use(s)**

• Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	NIOSH	OSHA		
Sodium hydroxide	TWAs	Not established	Not established	2 mg/m3 TWA		
(1310-73-2)	Ceilings	2 mg/m3 Ceiling	2 mg/m3 Ceiling	Not established		

8.2 Exposure controls

Engineering Measures/Controls

 Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

 In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

• Wear chemical splash safety goggles.

Skin/Body

Wear appropriate gloves.

Environmental Exposure

Controls

• Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description				
Physical Form	Liquid	Appearance/Description	Clear liquid.	
Color	Clear	Odor	Data lacking	

ng Point/Freezing Point	Data lacking
	Data lacking
r Solubility	Soluble 100 %
osive Properties	Data lacking
r Density	Data lacking
	Data lacking
gnition	Data lacking
- -	oignition

Octanol/Water Partition coefficient	Data lacking	

9.2 Other Information

No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

· No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

· Stable

10.3 Possibility of hazardous reactions

· Hazardous polymerization will not occur.

10.4 Conditions to avoid

· Excess heat. Avoid boiling of product.

10.5 Incompatible materials

· Do not mix with strong acids.

10.6 Hazardous decomposition products

No data available.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components			
Sodium hydroxide (0.48% TO 0.52%)	1310-73-	Irritation: Eye-Rabbit • 1 % • Severe irritation; Skin -Rabbit • 500 mg 24 Hour(s) • Severe irritation;	
0.0270)	_	Mutagen: Cytogenetic analysis • Unreported Route-Hamster • Lung (Somatic cell) • 10 mmol/L	

GHS Properties	Classification
Respiratory sensitization	EU/CLP• Data lacking OSHA HCS 2012• Data lacking UN GHS• Data lacking
Serious eye damage/Irritation	EU/CLP• Data lacking OSHA HCS 2012• Data lacking UN GHS• Data lacking
Acute toxicity	EU/CLP• Data lacking OSHA HCS 2012• Data lacking UN GHS• Data lacking
Aspiration Hazard	EU/CLP• Data lacking OSHA HCS 2012• Data lacking UN GHS• Data lacking

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	EU/CLP• Data lacking
Carcinogenicity	OSHA HCS 2012• Data lacking
	UN GHS• Data lacking

I	EU/CLP• Data lacking		
Skin corrosion/Irritation	OSHA HCS 2012• Data lacking		
	UN GHS• Data lacking		
	EU/CLP• Data lacking		
Skin sensitization	OSHA HCS 2012• Data lacking		
	UN GHS• Data lacking		
	EU/CLP• Data lacking		
STOT-RE	OSHA HCS 2012• Data lacking		
	UN GHS• Data lacking		
	EU/CLP• Data lacking		
STOT-SE	OSHA HCS 2012• Data lacking		
	UN GHS• Data lacking		
	EU/CLP• Data lacking		
Toxicity for Reproduction	OSHA HCS 2012• Data lacking		
	UN GHS• Data lacking		
	EU/CLP• Data lacking		
Germ Cell Mutagenicity	OSHA HCS 2012• Data lacking		
	UN GHS• Data lacking		

Potential Health Effects Inhalation

• Under normal conditions of use, no health effects are expected.

Chronic (Delayed) • No data available.

Skin

Acute (Immediate)• Under normal conditions of use, no health effects are expected.

Chronic (Delayed) • No data available.

Eye

Acute (Immediate)• Under normal conditions of use, no health effects are expected.

Chronic (Delayed) • No data available.

Ingestion

Acute (Immediate)• Under normal conditions of use, no health effects are expected.

Chronic (Delayed)No data available.

Section 12 - Ecological Information

12.1 Toxicity • Material data lacking. 12.2 Persistence and degradability • Material data lacking. 12.3 Bioaccumulative potential

Material data lacking. 12.4

Mobility in Soil

Material data lacking.

12.5 Results of PBT and vPvB assessment

No PBT and vPvB assessment has

been conducted.

12.6 Other adverse effects

· No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste • Dispose of content and/or container in accordance with local, regional, national,

and/or international regulations.

Packaging waste • Dispose of content and/or container in accordance with local, regional, national,

and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for

None specified.

user

14.7 Transport in bulk • Data lacking.

according to 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

SARA Hazard Classifications • None

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Sodium chloride	7647-14-5	Yes	No	Yes	No	Yes
Sodium hydroxide	1310-73-2	Yes	No	Yes	No	Yes

Canada

Labor Canada - WHMIS - Classifications of Substances		
Sodium hydroxide	1310-73-2	E (including 0.04% in aqueous solution, 0.08%, 0.4% in aqueous solution, 2%, 2.5%, 4% in aqueous solution, 5%, 10%, 16%, 20%, 40%, 50% in aqueous solution, 8.7N)
Sodium chloride	7647-14-5	Uncontrolled product according to WHMIS classification criteria

Canada - WHMIS - Ingredient Disclosure List		
Sodium hydroxide	1310-73-2	1 %
Sodium chloride	7647-14-5	Not Listed
nvironment		
Canada - CEPA - Priority Substances List		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
ited States		
abor U.S OSHA - Process Safety Management - Highly Hazardous Che	micals	
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
3 Social Chloride	7047-14-3	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
nvironment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable	Quantities	
Sodium hydroxide	1310-73-2	1000 lb final RQ; 454 kg fir RQ
Sodium chloride	7647-14-5	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantitie	es	
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances	s EPCRA RQs	
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substance	s TPQs	
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Sodium hydroxide	1310-73-2	Not Listed
Sodium chloride	7647-14-5	Not Listed
odddin onlondo		
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		
	1310-73-2	Not Listed

United States - California

Environment -

U.S. - California - Proposition 65 - Carcinogens List

Sodium hydroxideSodium chloride	1310-73-2 7647-14-5	Not Listed Not Listed	
U.S California - Proposition 65 - Developmental Toxicity			
Sodium hydroxide	1310-73-2	Not Listed	
Sodium chloride	7647-14-5	Not Listed	
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)			
Sodium hydroxide	1310-73-2	Not Listed	
Sodium chloride	7647-14-5	Not Listed	
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)			
Sodium hydroxide	1310-73-2	Not Listed	
Sodium chloride	7647-14-5	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Female			
Sodium hydroxide	1310-73-2	Not Listed	
Sodium chloride	7647-14-5	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Male			
Sodium hydroxide	1310-73-2	Not Listed	
Sodium chloride	7647-14-5	Not Listed	

15.2 Chemical Safety Assessment

· No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

H314 - Causes severe skin burns and eye damage.

Revision Date

• April 2020

Preparation Date

• 01/May/2013

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Key to abbreviations

NDA = No data available