Safety Data Sheet

BONDERITE C-AK 2076 ALKALINE CLEANER known as PARCO CLEANER 2076 (25KG)

SDS No. : 305831
V001.9
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Section 1. Identification of the substance/preparation and of the company/undertaking

Product name:
BONDERITE C-AK 2076 ALKALINE CLEANER known as PARCO CLEANER 2076 (25KG)

Other means of identification:
BONDERITE C-AK 2076 25KG
Product code:
IDH386093
Recommended use of the chemical and restrictions on use

Intended use:
Alkaline Cleaner for Industrial Application

Identification of manufacturer, importer or distributor
Manufacturer: Henkel Thailand Ltd Amata Nakorn Industrial Estate, 700/349 Mu 6, Tambol Nong Mai Daeng, Amphur Muang, Chonburi 20000, Thailand. Phone : +6638456300 Fax : +6638456393

E-mail address of person responsible for Safety Data Sheet:
ap-ua-psra.sea@henkel.com

Emergency information:
FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

Hazard Class	Hazard Category
Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

GHS label elements:

Hazard pictogram:

Signal word:
Danger

Hazard statement:
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precaution:

Prevention:
P234 Keep only in original container.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P301+P312+P330 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/ shower.
P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

Storage:
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:
P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3. Composition / information on ingredients

Substance or Mixture:
Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Sodium hydroxide 1310-73-2	30- 60 %	Corrosive to metals 1 H290 Skin corrosion/irritation 1 H314 Acute hazards to the aquatic environment 3 H402
sodium carbonate 497-19-8	10- 30 %	Acute toxicity 5; Oral H303 Serious eye damage/eye irritation 2A H319
Disodium metasilicate 6834-92-0	1- 10 %	Corrosive to metals 1 H290 Skin corrosion/irritation 1 H314 Specific target organ toxicity - single exposure 3 H335
Benzenesulfonic acid, mono-C10-14-alkyl derivs., sodium salts 85117-50-6	1- 10 %	Acute toxicity 4; Oral H302 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 1 H318 Acute hazards to the aquatic environment 2 H401
Poly(oxy-1,2-ethanediyl), a-(4-nonylphenyl)-w-hydroxy-, branched 127087-87-0	1- 10 %	Acute toxicity 4; Oral H302 Serious eye damage/eye irritation 1 H318 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411

Section 4. First aid measures

Inhalation:
If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

Skin contact:
Remove contaminated clothing and footwear.
For skin contact, flush with large amounts of water. Seek immediate medical attention.

Eye contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion:
Do not induce vomiting.
Give one to two glasses of water or milk.
Never give anything by mouth to a victim who is unconscious or is having convulsions.
If adverse health effects develop seek medical attention.

Symptoms/effects, acute and delayed:
Pre-existing skin, eye and respiratory allergies.

Section 5. Fire fighting measures

Suitable extinguishing media:
Use media appropriate for surrounding material.

Combustion behaviour:
Non-combustible.

Special protection equipment and precautions for firefighters:
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Hazardous combustion products:
Irritating and toxic gases or fumes may be released during a fire.

Section 6. Accidental release measures

Environmental precautions:
Do not empty into drains / surface water / ground water.
Wear appropriate protective equipment and clothing during clean-up.

Clean-up methods:
Sweep up or gather material and place in appropriate container for disposal.
Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:
Do not get in eyes.
Do not get on skin or clothing.
Avoid breathing vapors or mists of this product.
NEVER ADD WATER TO PRODUCT. For dilutions, add product slowly to water while stirring. Use caution; heat may be generated.
Wash thoroughly after handling.

Storage:
Keep container tightly sealed.
Store in a cool, well-ventilated place.
Isolate from incompatible substances.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

SODIUM HYDROXIDE 1310-73-2	**Value type**	Ceiling Limit Value:
	mg/m³	2
	Remarks	ACGIH
SODIUM HYDROXIDE 1310-73-2	**Value type**	Time Weighted Average (TWA):
	mg/m³	2
	Remarks	TH OEL

Respiratory protection:
If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

Hand protection:
Use impervious gloves.

Eye protection:
Wear chemical goggles; face shield (if splashing is possible).

Body protection:
Use of impervious apron and boots are recommended.

Engineering controls:
Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product.

General protection and hygiene measures:
Eyewash fountains and emergency showers are required.

Section 9. Physical and chemical properties

Appearance:	white Solid
Odor:	sweet
Odor threshold (CA):	No data available.
pH:	12.5 - 13
Melting point / freezing point:	No data available.
Specific gravity:	No data available.
Boiling point:	No data available.
Flash point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Solubility:	No data available.
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content:	No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials:
This product reacts with acids.
Adding water to this product may cause localized overheating and splattering.
Possibility of hazardous reactions:
Will not occur.
Conditions to avoid:
Stable under normal conditions of storage and use.
Hazardous decomposition products:
None if used for intended purpose.

Section 11. Toxicological information

Oral toxicity: Acute toxicity estimate (ATE) : > 2,000 mg/kg
Method: Calculation method

Health Effects:

Ingestion: This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Skin: Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns.
Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals.

Eyes: This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Symptoms of Overexposure**:** None known.

Acute oral toxicity:

Sodium hydroxide 1310-73-2	Value type	LDLo
	Value	500 mg/kg
	Species	rabbit
	Method	
sodium carbonate 497-19-8	Value type	LD50
	Value	2,800 mg/kg
	Species	rat
	Method	

Acute dermal toxicity:

sodium carbonate 497-19-8	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rabbit
	Method	
Disodium metasilicate 6834-92-0	Value type	LD50
	Value	> 5,000 mg/kg
	Species	rat
	Method	

Skin corrosion/irritation:

sodium carbonate 497-19-8	Result	not irritating
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Disodium metasilicate 6834-92-0	Result	corrosive
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Sodium hydroxide 1310-73-2	Result	corrosive
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
sodium carbonate 497-19-8	Result	irritating
	Exposure time	
	Species	rabbit
	Method	

Respiratory or skin sensitization:

Sodium hydroxide 1310-73-2	Result	not sensitising
	Test type	Patch-Test
	Species	human
	Method	

Germ cell mutagenicity:

Sodium hydroxide 1310-73-2	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	no data
	Method	
sodium carbonate 497-19-8	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with
	Method	Ames Test
Disodium metasilicate 6834-92-0	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Repeated dose toxicity:

Disodium metasilicate 6834-92-0	Result	NOAEL=792 mg/kg
	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	2 yearscontinuous
	Species	rat
	Method	

Section 12. Ecological information

General ecological information: If used properly the product does not enter the drains., Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Toxicity:

Sodium hydroxide 1310-73-2	Value type	LC50
	Value	45.4 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sodium hydroxide 1310-73-2	Value type	EC50
	Value	40.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Ceriodaphnia sp.
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sodium hydroxide 1310-73-2	Value type	EC0
	Value	> 100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	Pseudomonas putida

	Method	DIN 38412, part 27 (Bacterial oxygen consumption test)
sodium carbonate 497-19-8	Value type	LC50
	Value	300 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Lepomis macrochirus
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
sodium carbonate 497-19-8	Value type	EC50
	Value	200 - 227 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Ceriodaphnia sp.
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
sodium carbonate 497-19-8	Value type	EC50
	Value	137 mg/l
	Acute Toxicity Study	Algae
	Exposure time	5 d
	Species	Nitzschia sp.
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
sodium carbonate 497-19-8	Value type	EC 50
	Value	300 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	
Disodium metasilicate 6834-92-0	Value type	LC50
	Value	210 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	
Disodium metasilicate 6834-92-0	Value type	EC50
	Value	1,700 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	
Disodium metasilicate 6834-92-0	Value type	EC0
	Value	36 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
	Value type	EC50
	Value	213 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
Disodium metasilicate 6834-92-0	Value type	EC0
	Value	1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	
Benzenesulfonic acid, mono-C10-14-alkyl derivs., sodium salts 85117-50-6	Value type	LC50
	Value	5.9 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	
Benzenesulfonic acid, mono-C10-14-alkyl derivs., sodium salts 85117-50-6	Value type	EC50
	Value	4.4 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	
Benzenesulfonic acid, mono-C10-14-alkyl derivs., sodium salts 85117-50-6	Value type	EC50
	Value	> 2.6 mg/l
	Acute Toxicity Study	Algae

	Exposure time	96 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
	Value type	NOEC
	Value	2.6 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
Benzenesulfonic acid, mono-C10-14-alkyl derivs., sodium salts 85117-50-6	Value type	EC0
	Value	39 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	30 min
	Species	
	Method	

Persistence and degradability:

Benzenesulfonic acid, mono-C10-14-alkyl derivs., sodium salts 85117-50-6	Result	readily biodegradable
	Route of application	aerobic
	Degradability	92 %
	Method	EU Method C.4-B (Determination of the "Ready" BiodegradabilityModified OECD Screening Test)

Section 13. Disposal considerations

Product

Method of disposal:
Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages:
Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road transport ADR:

Class:	8
Packing group:	II
Classification code:	C6
Hazard ident. number:	80
UN no.:	3262
Label:	8
Technical name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide,Sodium metasilicate)

Railroad transport RID:

Class:	8
Packing group:	II
Classification code:	C6
Hazard ident. number:	80
UN no.:	3262
Label:	8
Technical name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide,Sodium metasilicate)

Inland water transport ADN:

Class:	8
Packing group:	II
Classification code:	C6
Hazard ident. number:	
UN no.:	3262
Label:	8
Technical name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide,Sodium metasilicate)

Marine transport IMDG:

Class:	8
Packing group:	II
UN no.:	3262
Label:	8
EmS:	F-A ,S-B
Seawater pollutant:	-
Proper shipping name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide,Sodium metasilicate)

Air transport IATA:

Class:	8
Packing group:	II
Packaging instructions (passenger):	859
Packaging instructions (cargo):	863
UN no.:	3262
Label:	8
Proper shipping name:	Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide,Sodium metasilicate)

Section 15. Regulatory information

Regulatory Information:
Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

Global inventory status:

Regulatory list	Notification
EINECS	yes
INV (CN)	yes
NZIOC	yes

Section 16. Other information

Disclaimer:
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.