THE CLASS

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DEAD SKIN ALKALI PRE-WASH S (1L)
company : COSMEDICINE
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Recommended use of the chemical and restrictions on use

Recommended use : car care

2. HAZARDS IDENTIFICATION

Globally Harmonized System of Classification and Labelling of Chemicals(GHS)

Physical hazard : Corrosive to metals CATEGORY 1
Health hazard : Acute toxicity, dermal CATEGORY 2
Skin corrosion/irritation CATEGORY (1A/1B/1C)
Serious eye damage/irritation CATEGORY 1
Environment hazrd : N/A

Label elements including precautionary statements

Symbol :

Signal word : WARNING

Hazard statement :

H290: May be corrosive to metals
H310: Fatal in contact with skin
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage

Precautionary statements :

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P234: Keep only in original container.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/…/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.

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

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P370+378: In case of fire: Use water to extinguish.

P403+235: Store in a well ventilated place. Keep cool.

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

P501: Dispose of contents/container to … [… in accordance with local/regional/national/international regulation (to be specified)].

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Concentration
water	7732-18-5	≤70
COCONUT OIL AMIDOPROPYL BETAINE	61789-40-0	≤5
C10-16 ALKYL BENZENESULFONIC ACID	68584-22-5	≤10
Sodium hydroxide	1310-73-2	≤0.5
FRAGRANCE		≤0.3
glycerin	56-81-5	≤5

4. FIRST AID MEASURES

In case of eye contact

Immediately flush eyes with plenty of water.
Get medical attention, if irritation persists.

In case of skin contact

Get medical attention, if irritation persists.
Wash with soap and water.

If inhaled

Remove to fresh air.
Get medical attention.

If swallowed

Get medical attention.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : NOT DETERMINED
Autoignition Temperature : NOT DETERMINED

Burning Rate : NOT DETERMINED

Suitable extinguishing media
- Alcohol resistant foam, CO2, Water spray, dry sand

Specific hazards arising from the chemical
- It may cause metal corrosion.
- When fire, it may cause irritative and corrosiveness toxic gas.

Special protective equipment for fire-fighters
- Use proper protective equipments
- Get out of the place, and ectinguish the fire with keeping a distace

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
- Eliminate all of the ignition source

Environmental precautions
- Do not allow to be flown into waterway, drain and basement.

Methods and materials for containment and cleaning up
- Absorb liquid and flush contaminated area with detergent and water.

7. HANDLING AND STORAGE

Precautions for safe handling
- Be aware of substances to avoid and conditions.

Conditions for safe storage
- Keep only in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameter

KOSHA : Sodium hydroxide - Sodium hydroxide

US ACGIH : Sodium hydroxide - TWA
Sodium hydroxide - STEL C 2 ㎎/㎥
Sodium hydroxide - ETC

Personal protective equipment

Respiratory protection :
Wear respiratory protection suitable for the characteristics of the exposed material.

Hand protection :
Wear respiratory protection suitable for the characteristics of the exposed material.

Eye protection : not available
Wear respiratory protection suitable for the characteristics of the exposed material.

Skin and body protection : not available
Wear respiratory protection suitable for the characteristics of the exposed material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : LIQUID

pH : 11-12

Flash point : N/A

Autoignition temperature : N/A

Water solubility : N/A

Density : N/A

Melting range : N/A

Lower explosion limit : N/A

Upper explosion limit : N/A

10. STABILITY AND REACTIVITY

Chemical stability
- It may cause metal corrosion.
- When fire, it may cause irritative and corrosiveness toxic gas.

Conditions to avoid:
-Heat, spark, ignition sources

Materials to avoid :
- Combustible material

Hazardous decomposition products :
- When fire, it may cause irritative and corrosiveness toxic gas.

11. TOXICOLOGICAL INFORMATION

	Acute toxicity		Skin corrosion/irritation
	oral toxicity	dermal toxicity	
water	LD50 90000 ㎎/㎏ Rat (LD50 > 90 ml/kg (Rat))		
COCONUT OIL AMIDOPROPYL BETAINE	LD50 4900 ㎎/㎏ Rat	LD50 > 2000 ㎎/㎏ Rat	slight irritaion (rabbit)
C10-16 ALKYL BENZENESULFONIC ACID	LD50 1350 ㎎/㎏ Rat	LD50 530 ~ 1060 ㎎/㎏ Rat	strong irritaion (rabbit)
SODIUM HYDROXIDE	LD50 325 ㎎/㎏ Rabbit	LD50 1350 ㎎/㎏ Rabbit	alkali-skin corrosion
glycerin	LD50 27000 ㎎/㎏ Rat	LD50 45 ㎖/㎏ Guinea pig	

	Serious eye damage / eye irritation	Respiratory or skin sensitization
water		
COCONUT OIL AMIDOPROPYL BETAINE		
C10-16 ALKYL BENZENESULFONIC ACID		
SODIUM HYDROXIDE		skin sensitization (guinea pig)
glycerin		

	Germ cell mutagenicity	Carcino-genicity	Reproductive toxicity
water			
COCONUT OIL AMIDOPROPYL BETAINE	In vitro - Salmonella thyphimurium/TA98, TA100, TA1535, TA1538 (Ames test)(GLP): Negative		
C10-16 ALKYL BENZENESULFONIC ACID	n vitro-(Salmonella typhimurium TA 98, 100, 1535, 1537, 1538): Negative (IUCLID)		
SODIUM HYDROXIDE			
glycerin	(S. typhimurium TA1535, TA1537, TA98, TA100)		

	Specific target organ toxicity		Aspiration hazard
	single exposure	repeated exposure	
water			
COCONUT OIL AMIDOPROPYL BETAINE		(0, 250, 500, 1000 mg/kg for 90d): NOAEL >250mg/kg	
C10-16 ALKYL BENZENESULFONIC ACID			
SODIUM HYDROXIDE			
glycerin			

12. ECOLOGICAL INFORMATION

	Toxicity		
	Fish	Crustacean	Birds
water			
COCONUT OIL AMIDOPROPYL BETAINE	LC50 1 ㎎/ℓ 96 hr Brachydanio rerio	EC50 6.5 ㎎/ℓ 48 hr Daphnia magna	ErC50 1.3 ㎎/ℓ 72 hr Scenedesmus subspicatus
C10-16 ALKYL BENZENESULFONIC ACID	LC50 3 ㎎/ℓ 96 hr Oncorhynchus mykiss	EC50 2.9 ㎎/ℓ 48 hr Daphnia magna	EC50 170 ㎎/ℓ 96 hr
SODIUM HYDROXIDE	LC50 0.7 ㎎/ℓ 96 hr Pimephales promelas	EC50 40.4 ㎎/ℓ 48 hr (Ceriodaphnia dubia)	EC50 0.214 ㎎/ℓ
glycerin	LC50 54000 ㎎/ℓ 96 hr Oncorhynchus mykiss	LC50 1955 ㎎/ℓ 48 hr Daphnia magna	EC3 > 10000 ㎎/ℓ 8 day Scenedesmus quadricauda

	Persistence and degradability	Bioaccumulative potential		Mobility in soil
		Bio accumulation	Bio degradable	
water	log Kow -1.38			
COCONUT OIL AMIDOPROPYL BETAINE		BCF 3.162	100 (%) 20 day	
C10-16 ALKYL BENZENESULFONIC ACID	log Kow 2	BCF 3.16	80 (%) 28 day (OECD TG 301 B)	
SODIUM HYDROXIDE	log Kow -3.88		60 01 2 hr	
glycerin	01 -1.75 log Kow	01 3 BCF		

13. DISPOSAL CONSIDERATIONS

Disposal consideration

Refer to local regulations

Disposal precaution

Refer to local regulations

14. TRANSPORT INFORMATION

UN TDG : N/A

IMDG : N/A

IATA : N/A

15. REGULATORY INFORMATION

Korea Industrial Safety and Health Act : N/A

Korea Hazardous Materials Safety Control Act : N/A

Korea Toxic Chemicals Control Act : N/A

16. OTHER INFORMATION

Issued Date : 2024.12.20

Revision No. :

Revision Date :

Reference

- GHS Classification : KOSHA
- Physical and chemical properties : KOSHA
- Transport information : KOSHA
- Toxic information : KOSHA
- Ecological information : KOSHA