

1- IDENTIFICATION

Product name: **C-13**
Description: Heavy-duty liquid detergent for dishwashers
Restriction on use: Alkaline aqueous mixture
Supplier/Manufacturer: PARALL LTÉE
2970 Bergman, Laval, QC, H7L 3P4
tel: 450-687-6666 1 800-661-6660 fax: 450-687-7646
In case of emergency: CANUTEC (24 hours) (613) 996-6666 (collect)

2- HAZARDS IDENTIFICATION

Product classification:

May cause irritation or moderate burns in direct contact with the skin, eyes.

May cause irritation of the respiratory and digestive tracts.

Harmful if swallowed in large quantities.

**Signal word:**

WARNING

Individual protection:

Visor or splash goggles.

Rubber or neoprene gloves.

Use a rubber apron or other protection depending on the nature of the work to be performed.

3- COMPOSITION/INFORMATION ON INGREDIENTS

MIX

Name	CAS Number	% weight	TLV - ACGIH
Potassium hydroxide	1310-58-3	7-13	2mg/m3
Sodium metasilicate	6834-92-0	1-5	not available
Sodium Hypochlorite	7681-52-9	1-5	not available

4- FIRST AID MEASURES

Eye contact: Risk of severe irritation varying exposure conditions. Quickly rinse the eyes using a large amount of water for at least 30 minutes. See a doctor immediately.

Skin contact: Risk of severe irritation varying exposure conditions. Remove contaminated clothing quickly. Rinse skin with water for 15 minutes or until the chemical is removed. See a doctor.

Inhalation:	Risk of severe irritation varying exposure conditions. After inhalation of dust or mist, remove to a ventilated area and place in a semi-sitting position. If not breathing, give artificial respiration. Avoid giving mouth-to-mouth unless you use a mouth guard. In case of breathing difficulties, give oxygen. The transfer immediately to the emergency medical service nearest you.
Ingestion:	Risk of severe irritation varying exposure conditions. If swallowed, rinse mouth. Drink a glass of water. Do not induce vomiting and consult a doctor immediately. Never give anything by mouth to an unconscious or convulsing.

5- FIRE-FIGHTING MEASURES

Flamability of the product:	Not flammable in normal use conditions.
Extinguishing media:	Use any extinguishing media appropriate to surrounding. Do not use water jet not to spread the product and expand the danger zone
Protection for fire-fighting:	Wear self-contained breathing apparatus with full face masks and special protective clothing. Cool with water containers exposed, even after the fire is out.
Hazardous Combustion Products:	Carbon oxide and irritating fumes.

6- ACCIDENTAL RELEASE MEASURES

Personal protection:	Respiratory protection with full face mask. Rubber gloves with long sleeve. Rubber boots. Tight tracksuits
Environnemental precautions:	Prevent from entering sewers, waterways or low areas.
Methods for cleaning:	Small and large spills: Ventilate area. Absorb with neutral absorbent material. Dispose of contaminated absorbent, refer to section 13 for waste disposal. Cleaning by rinsing with water. Ventilate.
Other information:	None

7- HANDLING AND STORAGE

Handling:	Chlorine gas release. Handle away from incompatible materials. Avoid contact with skin, eyes. In case of insufficient ventilation, suitable respiratory protective device. Workers handling transvasent or corrosive substances must wear appropriate personal protective equipment. This product is corrosive: if handled or transferred regularly or frequently, eyewash or true emergency showers must be made available to workers and be located near the work station. Avoid wearing contact lenses when handling the product.
Incompatibility with:	strong oxidizing agents, Strong acids, ammonia, oxidizable materials, some metals (Ni, Cu, Sn, Mg, Fe)
Storage:	Store in areas with soil corrosion resistant cemented. Store in an airtight container in a dry and well ventilated. Keep the container in a cool, dry place, between 5 ° C and 30 ° C. Condition to avoid: temperature > 40 ° C, the sun, contact with metals Avoid freezing. Keep between 5°C and 30°C.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures:	Eyewash and emergency showers near the working place. Exhaust ventilation at source is recommended.
Exposition values:	

C-13**SAFETY DATA SHEET**

<u>Name</u>	<u>TLV - ACGIH</u>
Potassium hydroxide	2mg/m3
Sodium metasilicate	not available
Sodium Hypochlorite	not available

Personal protection

Respiratory:	Respirator cartridge for chlorinated atmosphere if exhaust is not sufficient.
Eye:	Visor or splash safety goggles.
Hands:	Rubber or neoprene gloves
Clothing:	Use rubber apron or other protection depending on the nature of the job.
General:	Do not wear contact lenses when handling the product.

9- PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Amber liquid
Odour:	chlorinated
Odor threshold:	not available
pH:	14
Freezing point / melting point:	0°C
Boiling point:	not available
Flash point:	not available
Evaporating rate:	not available (ether=1)
Flammability:	not flammable
Flammable limits	not available
Vapor pressure:	not available (mm Hg)
Vapor density:	not available (air=1)
Specific gravity:	1.245 (water=1)
Solubility in water:	Miscible in water.
N-octanol / water partition coefficient:	not available
Auto ignition temperature:	not available
Decomposition temperature:	not available
Viscosity:	not available

10- STABILITY AND REACTIVITY

Chemical stability:	Sodium hypochlorite can be decomposed rapidly, the gasses products create an overpressure of the container.
Hazardous reactions:	Refer to Section 7 incompatible materials
Decomposition products:	Gaseous chlorine, with acids. Gaseous oxygen with metals
Incompatibility with:	Refer to Section 7 incompatible materials
Corrosion to metals:	Corrosive. Avoid contact with aluminium.

11- TOXICOLOGICAL INFORMATION

Datas: There are no data for the product, only for the ingredients

Name	<u>DL₅₀</u> (rat, oral)	<u>CL₅₀</u> (rat, 4h)
Potassium hydroxide	273mg/kg	not avail
Sodium metasilicate	1153mg/kg	not avail
Sodium Hypochlorite	5000mg/kg	not avail

Chronic health effects

C-13

SAFETY DATA SHEET

Carcinogenic effects: No data
Teratogenic effects: No data
Reproductive effects: No data
Synergistic product: No data

12- ECOLOGICAL INFORMATION

Ecotoxicity: (fish, aquatic invertebrates, aquatic plants, microorganisms): any existing data

Biodegradability: No data
Other adverse effects: No data

13- DISPOSAL CONSIDERATIONS

Waste disposal: Disposal of this product must comply with the provisions of the legislation. Consult local, provincial or federal. Dispose of empty containers in the same way. Do not reuse empty containers .(see also section 7)

14- TRANSPORT INFORMATION

TGD classification: UN3266, CORROSIVE LIQUID, BASIC, N.S.A. (Potassium Hydroxide), Class 8, PG II

Additional information: limited quantity 5L (Article 1.17 of the TDG)

15- REGULATORY INFORMATION

WHMIS 1988 (Canada): D2A Other health effects
E Corrosive substances (metal corrosion / irritation, eye injury)

16-OTHER INFORMATION

Date of issue: 2017-10-04 Prepared by Parall Ltée

References:

1. Manufacturer Datasheet
2. CNESST, Toxicological Directory, Products
3. RPD-SOR-2015-17
4. Technical Guidance on the Requirements of the Hazardous Products Act and the Hazardous Products Regulations - WHMIS 2015 Supplier Requirements

Notice to reader

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