

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
 Product name : Toughy
 Product code : 31
 Product group : Blend

1.2. Recommended use and restrictions on use

Recommended uses and restrictions : Grill, fryer, and kirchen cleaner and heavy duty degreaser.
 Recommended use : Washing and cleaning products (including solvent based products)

1.3. Supplier

Nypower Industries Ltd.
 111 Fisher St.
 P.O. Box PO Box 715
 Okotoks, AB - Canada
 T 403 995-2598 - F 403 995-1487
gm@nypowerind.com - www.nypowerind.com

1.4. Emergency telephone number

Emergency number : 403 899-4226

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Corrosive to metals Category 1 H290 May be corrosive to metals
 Skin corrosion/irritation Category 1 H314 Causes severe skin burns and eye damage
 Serious eye damage/eye irritation Category 1 H318 Causes serious eye damage
 Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) :

Danger

Hazard statements (GHS CA) :

H290 - May be corrosive to metals
 H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS CA) :

P234 - Keep only in original container.
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P280 - Wear protective clothing, eye protection, 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.
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 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 or doctor.
 P363 - Wash contaminated clothing before reuse.
 P390 - Absorb spillage to prevent material-damage.
 P405 - Store locked up.
 P406 - Store in corrosive resistant container with a resistant inner liner.
 P501 - Dispose of contents/container to Collection point.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

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according to the Hazardous Products Regulation (February 11, 2015)

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS CA) |
|--------------------------------|---|---------------------|---------|---|
| sodium hydroxide, caustic soda | sodium hydroxide, caustic soda anhydrous caustic soda / B751 / caustic alkali / caustic flake / caustic flakes / caustic soda / caustic soda, bead / caustic soda, dry / caustic soda, flake / caustic soda, granular / caustic soda, lye / caustic soda, solid / caustic white / caustic, flaked / hydrate of soda / hydrate of sodium / hydroxide of soda / hydroxide of sodium / LEWIS red devil lye / lye (=sodium hydroxide) / soda lye / soda, caustic / soda, hydrate / sodium hydrate / sodium hydrate lye / sodium hydroxide / sodium hydroxide (Na(OH)) / sodium hydroxide, bead / sodium hydroxide, dry / sodium hydroxide, flake / sodium hydroxide, granular / sodium hydroxide, pellets / sodium hydroxide, solid / white caustic | (CAS-No.) 1310-73-2 | 10 – 20 | Met. Corr. 1, H290 Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.
- First-aid measures general : Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Serious damage to eyes.
- Symptoms/effects after ingestion : Burns.

4.3. Immediate medical attention and special treatment, if necessary

- Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

- Fire hazard : Flammable liquid and vapor.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

- For containment : Collect spillage.

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- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray.
- Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up.
- Incompatible materials : Metals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Toughy | |
|--|---|
| Canada (Alberta) - Occupational Exposure Limits | |
| OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Notations and remarks | Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required. |
| Regulatory reference | Alberta Regulation 87/2009 (Alberta Regulation 182/2019) |
| Canada (British Columbia) - Occupational Exposure Limits | |
| OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Regulatory reference | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) |
| Canada (Saskatchewan) - Occupational Exposure Limits | |
| OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Regulatory reference | The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1 |
| sodium hydroxide, caustic soda (1310-73-2) | |
| Canada (Alberta) - Occupational Exposure Limits | |
| OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Notations and remarks | Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required. |
| Regulatory reference | Alberta Regulation 87/2009 (Alberta Regulation 182/2019) |
| Canada (British Columbia) - Occupational Exposure Limits | |
| OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Regulatory reference | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) |
| Canada (Saskatchewan) - Occupational Exposure Limits | |
| OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Regulatory reference | The Occupational Health and Safety Regulations, 1996. Chapter O-1.1 Reg 1 |

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

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Skin and body protection:

Wear suitable protective clothing

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Color | : brown |
| Odor | : mild |
| Odor threshold | : No data available |
| pH | : 13.9 |
| pH solution | : 13.9 |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : No data available |
| Melting point | : -3 °C |
| Freezing point | : -3 °C |
| Boiling point | : 100 °C |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapor pressure | : No data available |
| Vapor pressure at 50 °C | : No data available |
| Relative density | : No data available |
| Specific gravity / density | : 1.2408 kg/l |
| Solubility | : Water: 100 % |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Explosion limits | : No data available |
| Flammability limit - upper | : Not applicable |
| Flammability limit - lower | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

| | |
|------------------------------------|--|
| Reactivity | : Flammable liquid and vapor. |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use. |
| Conditions to avoid | : Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. |
| Incompatible materials | : metals. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hardening time: | : No additional information available |

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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| | |
|-------------------------------------|---|
| Skin corrosion/irritation | : Causes severe skin burns. pH: 13.9 |
| Serious eye damage/irritation | : Causes serious eye damage. pH: 13.9 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/effects after skin contact | : Burns. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Serious damage to eyes. |
| Symptoms/effects after ingestion | : Burns. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : Harmful to aquatic life. Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

sodium hydroxide, caustic soda (1310-73-2)

| | |
|----------------|--|
| EC50 Daphnia 1 | 40.4 mg/l (48 h, Ceriodaphnia sp., Experimental value, Locomotor effect) |
|----------------|--|

12.2. Persistence and degradability

sodium hydroxide, caustic soda (1310-73-2)

| | |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

12.3. Bioaccumulative potential

sodium hydroxide, caustic soda (1310-73-2)

| | |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
|---------------------------|----------------------|

12.4. Mobility in soil

sodium hydroxide, caustic soda (1310-73-2)

| | |
|-----------------|---|
| Surface tension | No data available in the literature |
| Ecology - soil | No (test)data on mobility of the substance available. |

12.5. Other adverse effects

| | |
|-------|------------------|
| Ozone | : Not classified |
|-------|------------------|

SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|-------------------------|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information | : Flammable vapors may accumulate in the container. |

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

| | |
|---------------|----------------------|
| UN-No. (TDG) | : UN1824 |
| Packing group | : II - Medium Danger |

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according to the Hazardous Products Regulation (February 11, 2015)

TDG Primary Hazard Classes : 8 - Class 8 - Corrosives
Transport document description : UN1824 SODIUM HYDROXIDE SOLUTION, 8, II
Proper Shipping Name (Transportation of Dangerous Goods) : SODIUM HYDROXIDE SOLUTION

Hazard labels (TDG) : 8 - Corrosive substances



Explosive Limit and Limited Quantity Index : 1 L
Excepted quantities (TDG) : E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 1 L

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 1824
Proper Shipping Name (IMDG) : SODIUM HYDROXIDE SOLUTION
Transport document description (IMDG) : UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II
Class (IMDG) : 8 - Corrosive substances
Packing group (IMDG) : II - substances presenting medium danger

IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

sodium hydroxide, caustic soda (1310-73-2)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

sodium hydroxide, caustic soda (1310-73-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

SDS Major/Minor : None
Issue date : 06/09/2021

Full text of H-phrases:

| | |
|------|---|
| H290 | May be corrosive to metals |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H402 | Harmful to aquatic life |

SDS Canada (GHS)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.