

CASTROL INDUSTRIAL
GREAT LAKES INCORPORATED
MATERIAL SAFETY DATA SHEET
EMERGENCY TELEPHONE NO. 517-546-4520

SECTION I

PRODUCT NAME OR NUMBER: COME-CLEAN 900 CASE/4

MANUFACTURER'S NAME: CASTROL INDUSTRIAL
GREAT LAKES INCORPORATED

ADDRESS: 1445 McPherson Park Dr., P.O. Box 860, Howell, MI 48844-0860

PROPER SHIPPING NAME(49 CFR 172.101): Not regulated

HAZARD CLASS(49 CFR 172.101): Not regulated

HAZARD ID NUMBER: Not applicable

CHEMICAL FAMILY: Alkaline water base solution

SECTION II

Blend of surfactants, couplers,
builders, dyes, conditioners
and water

95-99X

Sodium hydroxide

1-5X TLV*: 2mg/m3 (OSHA)
2mg/m3 (ceiling) (ACGIH)

*TLV means Threshold Limit Value. * This refers to airborne concentrations of substances and represent conditions under which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect.*

SECTION III TYPICAL PHYSICAL DATA NOT TO BE CONSIDERED SPECIFICATIONS

BOILING POINT (initial): approx. water
SPECIFIC GRAVITY: 1.2
VAPOR PRESSURE (mm Hg): approx. water
VAPOR DENSITY (air=1): approx. water
EVAPORATION RATE (ether=1): approx. 1
PERCENT VOLATILE BY WEIGHT: 65-75
SOLUBILITY IN WATER: Complete
pH: Concentrate - 12.5-13.0
5X dilution - 11.9-12.3
APPEARANCE AND ODOR: Clear pale yellow-green liquid; mild odor

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used): None

FLAMMABLE LIMITS IN AIR, % BY VOLUME: Lower(lei) Upper(uei)
Not applicable

EXTINGUISHING MEDIA: Fire and heat may drive off water leaving chemical ingredients which may burn.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus when fire fighting in a confined space.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

CONTAINER HANDLING: Do not cut or weld empty drums unless they are thoroughly cleaned.

SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Not established for the product. See section II.

LISTED CARCINOGEN (NTP, IARC OR OSHA): This product does not contain any listed carcinogens.

ROUTES OF EXPOSURE AND ACUTE EFFECTS:

DANGER: Corrosive

Skin Contact: The concentrate will irritate or burn skin after short contact due to high alkalinity. Dilutions of 1X in water alone have alkalinity similar to hand soap, although the product is not intended for use as hand soap.

Eye Contact: Concentrate will irritate or burn eye tissue. Dilutions will be irritating.

Inhalation: The concentrate is not volatile, so no inhalation should be possible.

Ingestion: Concentrate will be harmful if swallowed, because of its alkalinity. It will irritate or burn mucous membrane tissue.

CHRONIC EFFECTS: A review of literature suggests no long term hazard. Because of the intermittent nature of use of the product, exposure is very limited.

EMERGENCY AND FIRST AID PROCEDURES:

Skin Contact: Concentrate - wash off with plain water. Dilution - wash with soap and water. Launder contacted clothing before reuse.

Eye Contact: Flush with water for at least 15 minutes. Contact physician.

Inhalation: If throat is irritated by vapors, move to fresh air.

Ingestion: If concentrate is swallowed, DO NOT induce vomiting. Give large quantities of water. Contact physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Contact with strong acids; contact of concentrate with active metal fines such as aluminum.

INCOMPATIBILITY: Store away from strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrocarbon decomposition products at elevated temperatures.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Small Spills: Soak up with absorbent material.

Large Spills: Dike area to prevent runoff, recover liquid, soak up remaining liquid with absorbent material

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal regulations

RCRA HAZARDOUS WASTE DESIGNATION: This product does fall under current EPA RCRA definitions of hazardous waste with designation D002 because of its alkalinity if the product is disposed of in its original form.

CERCLA (Superfund) REPORTABLE QUANTITY: This product does contain a CERCLA regulated material, sodium hydroxide, RQ-1000 LBS.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Good industrial hygiene practices, recommend that engineering controls (such as local and/or mechanical ventilation) be used to reduce environmental concentrations to the permissible exposure level. Respirators may be used when engineering and work practice controls are not technically feasible, when such controls are in the process of being installed, or when they fail and need to be supplemented. If the use of a respirator is necessary use only a MSHA/NIOSH approved air supplied respirator or an air-purifying respirator.

PROTECTIVE GLOVES: Impervious gloves (such as rubber, neoprene, NBR nitrile, polyethylene) when handling the concentrate.

EYE PROTECTION: Safety glasses with side shields or chemical goggles

OTHER PROTECTIVE EQUIPMENT: Appropriate clothing to avoid skin contact

SECTION IX SPECIAL PRECAUTIONS

AUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep drums and containers of concentrate closed when not in use. Allow to warm to room temperature before dilution.

Do not add any other additive ingredients to the concentrate.

Do not use aluminum, magnesium, or zinc equipment with this product in the concentrated form.

OTHER PRECAUTIONS: None known

SECTION X OTHER HAZARD INFORMATION

Come Clean is not considered corrosive according to D.O.T. regulations.

SECTION XI ADDITIONAL REGULATORY INFORMATION

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR 1910.1200 Hazardous Chemical: Yes

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

Section 302, Extremely Hazardous Substance: No

Section 311, Hazardous Chemical: Yes

Hazard categories: Fire - No, Reactivity - No, Sudden release of pressure - No, Immediate - Yes, Delayed - No

Section 313, Toxic chemical: Yes - sodium hydroxide 1310-73-2 1-5X

TOXIC SUBSTANCE CONTROL ACT (TSCA)

TSCA Inventory: This product is a mixture and is not listed in the TSCA Inventory. The individual ingredients in the product are listed in the Inventory.

OVAL: DRB

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