1 Identification

· Product identifier
  · Trade name: Cooling System Flush
  · Part number: 202210
  · Application of the substance / the mixture: radiator cleaner

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    Terraclean, division of, CPS Products Canada Ltd.
    1324 Blundell Road
    Mississauga, ON L4Y 1M5
    Canada
    Tel: (905) 615-8620
  · email of person responsible: customerservice@terraclean.net
  · Emergency telephone number:
    CHEMTREC International +1 (703) 527-3887 (outside the US), 1-800-424-9300 (in the US) 24 hr

2 Hazard(s) identification

· Classification of the substance or mixture
  · Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements
  · GHS label elements
    The product is classified and labeled according to the Globally Harmonized System (GHS).
    · Hazard pictograms
      GHS07

  · Signal word Warning
  · Hazard statements
    Causes serious eye irritation.
  · Precautionary statements
    Wear protective gloves / eye protection / face protection.
    IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
    If eye irritation persists: Get medical attention.

· Other hazards
  · Results of PBT and vPvB assessment
    · PBT: Not applicable.
    · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures
  · Description: Mixture: consisting of the following hazardous components.
4 First-aid measures

· Description of first aid measures
  · After inhalation:
    Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
  · After skin contact:
    Immediately wash with water and soap and rinse thoroughly.
  · After eye contact:
    Rinse cautiously with water. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists.
  · After swallowing:
    Rinse out mouth. Do not induce vomiting. If symptoms persist consult doctor.

· Information for doctor:
  · Most important symptoms and effects, both acute and delayed
    No further relevant information available.
  · Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire-fighting measures

· Extinguishing media
  · Suitable extinguishing agents:
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  · Special hazards arising from the substance or mixture
    See section 10 for additional information.

· Advice for firefighters
  · Protective equipment:
    Recommend wearing self-contained breathing apparatus. Water may cause splattering.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
· Environmental precautions: No special measures required.
· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
· Reference to other sections
  See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
7 Handling and storage

· Handling:
  · Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  · Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities
  · Storage:
    · Requirements to be met by storerooms and receptacles:
      See section 10 for incompatible materials.
    · Information about storage in one common storage facility: Not required.
    · Further information about storage conditions: Keep receptacle tightly sealed.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters
  · Components with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  · Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls
  · Personal protective equipment:
    · General protective and hygienic measures:
      The usual precautionary measures for handling chemicals should be followed.
    · Protection of hands: Chemical resistant protective gloves
  · Eye protection:
    Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
    · Appearance: Fluid
    · Color: colorless to pale yellow
    · Odor: Light
Trade name: Cooling System Flush

- Odor threshold: Not determined.
- pH-value at 20 °C: 5,6-7
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.
- Flash point: Not applicable.
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature:
- Decomposition temperature: Not determined.
- Auto igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Vapor pressure: Not determined.
- Density:
  - Relative density at 20 °C: 1,05-1,10
  - Vapor density: Not determined.
  - Evaporation rate: Not determined.
- Solubility in / Miscibility with
  - Water: Fully miscible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Other information No further relevant information available.

10 Stability and reactivity

- Reactivity No further relevant information available.
- Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide
11 Toxicological information

· Information on toxicological effects
  · Acute toxicity:
    · Primary irritant effect:
      · on the skin: May cause mild skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis.
      · on the eye: May cause eye irritation.
    · Sensitization: No sensitizing effects known.
  · Additional toxicological information:
    · IARC (International Agency for Research on Cancer)
      64-17-5 ethanol
      None of the ingredients is listed.
    · NTP (National Toxicology Program)
      None of the ingredients is listed.
    · OSHA-Ca (Occupational Safety & Health Administration)
      None of the ingredients is listed.

12 Ecological information

· Toxicity
  · Aquatic toxicity: No further relevant information available.
  · Persistence and degradability No further relevant information available.
  · Behavior in environmental systems:
    · Bioaccumulative potential No further relevant information available.
    · Mobility in soil No further relevant information available.
  · Additional ecological information:
    · General notes:
      Water hazard class 1 (Self-assessment): slightly hazardous for water
      Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  · Results of PBT and vPvB assessment
    · PBT: Not applicable.
    · vPvB: Not applicable.
  · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Trade name: Cooling System Flush

· Uncleaned packagings:
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number
  · DOT, IMDG, IATA Not Regulated
  · TDG Not Regulated

· UN proper shipping name
  · DOT, IMDG, IATA Not Regulated
  · TDG Not Regulated.

· Transport hazard class(es)
  · DOT, IMDG, IATA Not Regulated
  · Class
  · DOT, IMDG, IATA Not Regulated
  · Class
  · TDG Not Regulated.

· Packing group
  · DOT, IMDG, IATA Not Regulated
  · TDG Not Regulated.

· Environmental hazards: Not applicable.

· Special precautions for user Not applicable.

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation": Not Regulated

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Sara
    · Section 355 (extremely hazardous substances):
      None of the ingredients is listed.
    · Section 313 (Specific toxic chemical listings):
      107-19-7 prop-2-yn-1-ol
    · TSCA (Toxic Substances Control Act):
      All ingredients are listed.
  · Proposition 65
    · Chemicals known to cause cancer:
      None of the ingredients is listed.
Trade name: Cooling System Flush

44.1.2

- Chemicals known to cause reproductive toxicity for females:
  None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:
  None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:
  64-17-5 ethanol

  • Carcinogenic categories
    - EPA (Environmental Protection Agency)
      None of the ingredients is listed.
    - TLV (Threshold Limit Value established by ACGIH)
      64-17-5 ethanol A3
    - NIOSH-Ca (National Institute for Occupational Safety and Health)
      None of the ingredients is listed.

  • Canadian substance listings:
    - Canadian Domestic Substances List (DSL)
      All ingredients are listed.
    - Canadian Ingredient Disclosure list (limit 0.1%)
      None of the ingredients is listed.
    - Canadian Ingredient Disclosure list (limit 1%)
      None of the ingredients is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Contact: Engineering Department
  - Issue Date 10/FEB/2017
  - Revision Changes:
    v 1.0 - original SDS release (25/MAY/2015)
    v 2.0 - revised formula (14/JAN/2016)
    v 3.0 - revised section 3 (10/FEB/2017)

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A