DIPWAX CHAIN CLEANING FLUID

1. IDENTIFICATION

Material: Chain cleaning liquid. Clear.
Supplier: Hagen Automation Ltd
Address: Hagen Automation, Greybern House, Templars Way, Sharnbrook, MK441PY United Kingdom
Emergency Tel: 0044 7739 854 883
Website: hagenautomation.com

2. HAZARDS IDENTIFICATION

2.1 **Classification**:
Hazardous components according to CLP Regulation 1272/2008/EC.
Aspiration tox (cat 1) Maybe fatal if swallowed and enters airways.

2.2 **Label Elements, Signal Words, Hazard Pictograms, Precautionary Statements:**

Signal Word: Danger

Hazard Statements:
H304: May be fatal if swallowed and enters airways
EUOH66: Repeated exposure may cause skin dryness or cracking

Precautionary statements:
P 301 +310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor
P331: Do NOT induce vomiting
P501: Dispose of contents/ container to an approved waste disposal plant
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

2.3 **Other Hazards:**
The mixture does not contain any vPvB or PBT substances. Product is combustible and flammable vapours could be formed especially if subjected to heat

3. COMPOSITION

Mixture:

Hazardous Components:

Hydrocarbons C11-C13 isoalkanes <2% aromatics	CAS/EC N/A as Mixture	>90%

NB. For the wording of listed hazard phrases please refer to section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures
Eye: Flush victim's eyes with water for 15 minutes, while holding the eyelids apart. Remove contact lenses if present and easy to do so. Continue rinsing. Get medical attention if irritation persists.
Skin: Remove severely contaminated cloathing Wash skin with soap and water.
Inhalation: Remove to fresh air. Get medical attention if irritation or symptoms occur.
Ingestion: If swallowed, drink plenty of water. **Do not induce vomiting**
Get immediate medical attention.
4.2 Most important symptoms and effects, both acute and delayed.
No important symptoms or effects
4.3 Indication of any immediate medical attention and special treatment needed.
If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media: Alcohol resistant foam, dry chemical, carbon dioxide.
(water stream unsuitable)
5.2 Special hazards arising from the substance or mixture:
May produce oxides of Carbon and other combustion products. Contents will add to fuelling of fire.
5.3 Advice for firefighters: Only suitably trained personnel should attempt to tackle fires. Do not stay in the danger zone without respiratory protective equipment and PPE.
Combustible - flash point ≥61°C. Keep containers cool by spraying with water.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Protective Equipment and Emergency Procedures:
Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Keep unnecessary personnel away.
6.2 Environmental Precautions: Do not flush into surface water or sanitary sewer system. Notify local authorities if product enters sewers or public waters.
6.3 Methods and Material for Containment and Cleaning up: Stop spill at source if safe to do so. Contain spill and remove into a suitable container or absorb with an inert absorbent and place in a suitable container. Scrub area with detergent and water.
6.4 Reference to Other Sections: Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal Information

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handing: Keep away from heat, sparks and open flame. Use with good ventilation. Avoid contact with eyes, skin and clothing. Do not breathe vapours/mist. Wash exposed

skin thoroughly with soap and water after use. Wear appropriate personal protective equipment as specified in Section 8. Observe good industrial hygiene practices. Remove contaminated clothing.
7.2 Conditions for Safe Storage: Including Any Incompatibilities: Store in a cool, dry, well-ventilated area. Keep away from frost. Keep container tightly closed. Prevent exposure to high temperatures. Store away from oxidizing agents and other incompatible materials. Store in containers made of stainless steel, HDPE, PET, or glass.
7.3 Specific End Use(s): For degreasing and cleaning cycle chains

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Ingredients with limit values that require monitoring at the workplace:

Ingredients	LTEL 8 Hr	STEL 15min	Note
Hydrocarbons, Isoalkanes <2% aromatics (vapour)	1200mg/m3	-	EH40

Product as supplied should not cause concern however in all circumstances exposure should be kept as low as reasonably possible by good ventilation and safe working practices.
DNEL Values: - No Data Available
PNEC Values: - No Data Available

8.2 Exposure Controls:
Appropriate engineering measures: Facilities storing or utilising this material should be equipped with an eyewash facility.
Respiratory protection: Inhalation of the vapour, fumes or mists should be avoided by safe working practices and good ventilation.
Eye protection: Wear appropriate eye goggles.
Skin protection: No special precautions are needed beyond clean working conditions and safe handling practices. Protective work clothing advised. Change heavily contaminated clothing.
Hand protection: Use Nitrile impervious gloves [conforming to EN374]. See glove manufacturer data for glove selection and breakthrough time for use conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Thin Liquid, clear, colourless
Odour: Mild solvent
Odour threshold: Not determined
pH: N/A
Melting point/ Congealing point: <0 °C
Boiling point/ range: Initial boiling point 150 °C
Flash Point: ≥ 61 °C,
Evaporation Rate: Not determined
Flammability (solid, gas): Not applicable
Explosion Limits: 0.6% - 7% by vol calculated
Vapour pressure: Approx 0.05kPa at 20˚C
Vapour density: >1
Relative density (at 15°C): 0.8g/cm3
Solubility in water: Not miscible or difficult to mix
Solubility in other solvents: Not determined
Partition coefficient n-octanol/water: Not determined
Auto-ignition temperature: Not determined
Decomposition temperature: Not determined

Viscosity (Kinematic, at 100°C): Not determined
Explosive properties: Not determined
Oxidizing properties: Not determined

10. STABILITY AND REACTIVITY

10.1 Reactivity: This product is not reactive under normal storage and handling conditions.
10.2 Chemical stability: Under normal storage and handling conditions, this product is stable.
10.3 Possibility of hazardous reactions: No specific hazardous reactions are expected.
10.4 Conditions to avoid: Heat, extremes of temperature (preferably, store between 5 & 39 °C).
10.5 Incompatible materials: Avoid strong oxidising agents
10.6 Hazardous decomposition products: None when used as directed.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

11.1.2. Mixtures
Acute toxicity - No data available
Irritation - No data available
Corrosivity - No data available
Sensitisation - No data available
Repeated dose toxicity - No data available
Carcinogenicity - No data available
Mutagenicity - No data available
Toxicity for reproduction - No data available

Other information: May cause irritation and discomfort to eyes. Prolonged or repeated contact may cause irritation and dermatitis. High concentrations of vapours may cause drowsiness and dizziness Ingestion may cause irritation to mouth and cause damage to respiratory system.

HYDROCARBONS C11-C13 Isoalkanes <2% aromatics:

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Acute Tox - Oral	LC50	>5000mg/kg	Rat	OECD401	Minimally toxic
Acute Tox -Inhal	LC50	>5000mg/l 4hr	Rat	OECD403	Minimally toxic
Acute Tox -Derm	LC50	>5000mg/kg	Rabbit	OECD402	Minimally toxic
Skin corrosion/ irritation				OECD404	Repeated exposure may cause skin dryness or cracking
Serious eye damage/irritation				OECD405	Mildly irritating
Sensitisation -respiratory or skin				OECD406	Not expected to be resiratory or skin sensitiser
Aspiration					May be fatal if swallowed
Germ cell Mutagenicity				OECD471	Not expected to be a germ mutagen. Analogous conclusion.

Toxicity / Effect	Endpoint	Value	Organism	Method	Notes
Carcinogenicity					No evidence of carcinogenity
Reproductive toxicity				OECD414	Negative. Analogous conclusion
Lactation					Not expected to cause harm to breast fed children
Specific Target Organ toxicity STOT-SE					Not expected to cause organ damage
STOT - repeated exposure				OECD413	Not expected to cause damage from prolonged / repeated contact

General: Vapours above recommended exposure limits are irritating to the eyes and respiratory tract. Prolonged /repeated contact will defat the skin resulting in possible irritation and dermatitis. Small amounts of aspirated liquid into the lungs may cause chemical pneumonitis or pulmonary oedema.

12. ECOLOGICAL INFORMATION

Mixture
12.1 Toxicity - No data available
12.2 Persistence and degradability - No data available
12.3 Bioaccumulative potential - No data available
12.4 Mobility in soil - No data available
12.4 results of PBT and vPvB assessment - No data available
12.6 Other adverse effects - No data available

HYDROCARBONS C11-C13 Isoalkanes <2% aromatics:
12.1 Toxicity:
Not expected to be harmful to aquatic organisms

Test	Duration	Organism	Method	Result	Notes
Aquatic - acute	48hrs	Invertebrate	ELO	1000mg/l	Not tox at water solubility
Aquatic - acute	72hrs	Algae	NOELR/ELO	1000mg/l	Not tox at water solubility
Aquatic - acute	96hrs	Fish	LLO	1000mg/l	Not tox at water solubility
Aquatic - chronic	21 days	Daphnia magna	NOELR	≥ 1mg/l	

12.2 Persistence and degradability – Expected to be inherently biodegradable. Transformation due to hydrolysis / photolysis not expected to be significant. Expected to degrade rapidly to air

Media	Test Type	Duration	Result	Notes
Water	Ready Biodegradability	28 days	<60%	-

Bioaccumulation potential: There is no indication that this material is a risk to the environment.
Mobility in soil: Highly volatile - will rapidly partition to air. Not expected to partition to solids or wastewater solids
Results of PBT and vPvB assessment: This substance does not fulfil the criteria for being classed as a PBT or vPvB substance. According to Annex XIV of regulation (EC) No.1907/2006
Other Ecological information: No other adverse effects are observed.

13. DISPOSAL INFORMATION

General: Dispose of in a safe manner in accordance with local/national regulations

14. TRANSPORT INFORMATION

Transport: Not classified as hazardous for transport.

14.1 UN number: Not Classified.
14.2 UN Proper shipping name: Not Classified
14.3 Transport Hazard Class(es): Not Classified
14.4 Packing Group: Not Classified
14.5 Environmental Hazards: None
14.6 Special Precautions for user: None
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not Classified

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture
REACH - 1907/2006
CLP - 1272/2008
DPD - 199/45/EC
COSHH - 2002 (as amended)

15.2 Chemical safety assessment
A CSA has not been carried out for this mixture

16. OTHER INFORMATION

References:
* European agreement concerning the international carriage of dangerous goods by road (ADR) volumes I & II 1999
* Commission Directive 93/112/EC of 10/12/93, (O.J. No. 314 of 16/12/93 pg 38)
* Council Directive 67/548/EEC and all appropriate A.T.P'S

IMPORTANT NOTE:
1. Before any product is used the label should be carefully read and current safety literature and information consulted.
2. The product information in this Data Sheet is to the best of Hagen Automation's knowledge correct as at the date of publication. User should contact Hagen Automation for updated advice and in any event satisfy themselves that the product is entirely suitable for their purpose.

Relevant phrases
H304 May be fatal if swallowed and enters airways.
EUOH66 Repeated exposure may cause skin dryness
Abbreviations and acronyms:
ADR: 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
PNEC Predicted No Effect Level
DNEL Derived No Effect Level
LD50 Median Lethal Dose
LC50 Median Lethal Concentration 50 percent
CLP Classification Labelling and Packaging Regulation
ES Exposure Scenario
EC European Commission
EC No European Chemical Number – EINECS - ELINCS
ECHA European Chemical Agency
OECD Organisation for Economic Cooperation and Development
DSD Dangerous Substances Directive
LTEL Long term exposure limit
STEL (SE) Short term exposure limit (Single exposure)
STOT Specific target organ toxicity
PNEC Predicted no effect concentration
DNEL Derived no effect level

Asp. Tox. 1: Aspiration hazard – Category 1
Classification methods used to derive classification of mixture
Classification according to calculation procedure detailed in EC1272/2008