

SAFETY DATA SHEET

SECTION 1

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: Clean Start™ Industrial Flush
Product Description: Hydrotreated Base Oil and Aliphatic Solvent and Additives
Product ID: 0079-046
Intended Use: Fluid for cleaning and removal of industrial system deposits

COMPANY IDENTIFICATION

Manufacturer: Hydrotex Partners Ltd.
4912 S. 48th West Avenue
Tulsa, OK 74107 USA

Transportation Emergency Phone	800-424-9300 CHEMTREC
Hydrotex Transportation No.	918-583-6224
SDS Requests	972-389-8500
Product Technical Information	800-527-9439
SDS Internet Address	http://www.hydrotexlube.com

SECTION 2

HAZARDS IDENTIFICATION

GHS Classification:

Reproductive Toxicity – Category 2
Carcinogenicity – Category 2
STOT RE (Nervous System): Category 1
STOT RE (Hemopoietic system [blood forming]): Category 1

GHS label elements

Symbol(s)



Signal Word: DANGER

Hazard Statements

H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child
H370 Causes damage to organs (nervous system, hemopoietic system)

Precautionary Statements

P102 Keep out of reach of children
P203 Obtain, read, and follow all safety instructions before use.
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P280 Wear protective gloves/eye protection/face protection
P405 Store locked up

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Response

P301/P310 IF SWALLOWED: Immediately call a POISON CENTER or physician.
P331 Do NOT induce vomiting
P304/P260 IF INHALED: Get medical advice/attention if you feel unwell.
P318 IF exposed or concerned, get medical advice
P319 Get medical help if you feel unwell.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Hazardous Substance(s) or Complex Substance(s)

NAME	CAS#	% BY WEIGHT
Naphtha (petroleum), heavy aromatic	64742-94-5	0.4 to 1.2
1,2,4-Trimethylbenzene	95-63-6	0.4 to 1.2
Naphthalene	91-20-3	< 0.25
2-Ethyltoluene	611-14-3	< 0.25

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4 FIRST AID MEASURES

EYE CONTACT

Flush thoroughly with large amounts of water for at least 15 minutes. Remove contact lenses, if present, after first 5 minutes of rinsing. If irritation persists get medical assistance.

SKIN CONTACT

Wash contact areas with soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. If irritation persists, call a physician.

INHALATION

If overcome by vapors, move the exposed person to fresh air. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. Seek medical attention if breathing difficulties continue.

INGESTION

If swallowed, do NOT induce vomiting. If vomiting occurs, have the person lean forward. Keep at rest. Give the person a glass of water or milk to drink and get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering

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streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Aldehydes, Smoke, Fume, Sulfur oxides, Incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES

Flash Point [Method]: >200 °C (>392 °F) [EST. FOR OIL, ASTM D-92 (COC)]

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

Autoignition Temperature: N/D

SECTION 6

ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800) 424-8802.

PROTECTIVE MEASURES

Avoid contact with spilled material. Eliminate all sources of ignition in the vicinity of the spill. See Section 2 for Hazard Identifications. See Section 4 for First Aid measures. See Section 5 for Fire Fighting Information. See Section 8 for Personal Protective Equipment.

SPILL MANAGEMENT

Eliminate potential sources of ignition. Stop leak if it can be done without risk. Dike and contain spill. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined spaces. Remove with vacuum trucks or pump into storage/salvage vessels. Soak up residue with absorbent such as clay, sand or other suitable material and dispose of properly.

Spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted.

Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7

HANDLING AND STORAGE

HANDLING

Avoid contact with eyes and skin. Prevent small spills and leakage to avoid slip hazard. Keep away from ignition sources such as heat, spark, and flames. No smoking.

Static Accumulator: This material is a static accumulator.

STORAGE

DO NOT USE OR STORE near heat, sparks or flame. USE OR STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use. Do not store in open or unlabeled containers.

Empty Container Warning PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is

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difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

	CAS#	OSHA PEL	ACGIH TLV	ACGIH STEL	NIOSH REL	NIOSH STEL	NIOSH IDLH	NOTES
Naphthalene	91-20-3	10 ppm	10 ppm	15 ppm	10 ppm	15 ppm	250 ppm	skin
1,2,4-Trimethylbenzene	95-63-6	Not est.	25 ppm	Not est.	25 ppm	Not est.	Not est.	n/a

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

Local exhaust ventilation is recommended to control exposure.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly effect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

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SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid

Color: Amber

Odor: Characteristic

Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 C): 0.907

Flash Point [Method]: >200 °C (>392 °F) [EST. FOR OIL, ASTM D-92 (COC)]

Flammable Limits (Approximate volume % in air): LEL: N/D UEL: N/D

Autoignition Temperature: N/D

Boiling Point / Range: N/D

Vapor Density (Air = 1): N/D

Vapor Pressure: N/D

pH: N/D

Solubility in Water: Negligible

Viscosity: 46 cSt (46 mm²/sec) at 40 °C

Oxidizing Properties: See Sections 3, 15, 16.

OTHER INFORMATION

Pour Point: -36 °C (-33 °F)

Melting Point: N/D

SECTION 10

STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Flames. Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, products of incomplete combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11

TOXICOLOGICAL INFORMATION

The preparation contains no substance classed as hazardous per directive 67/589/EEC

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC

3 = IARC 1

5 = IARC 2B

2 = NTP SUS

4 = IARC 2A

6 = OSHA CARC

SECTION 12

ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

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ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

No data

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Material – Not expected to be readily biodegradable.

BIOACCUMULATION POTENTIAL

No bioaccumulation data on the product itself is available

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosiveness or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning: Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14

TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

SECTION 15

REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: IECSC, DSL, EINECS, PICCS, TSCA

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REGULATORY DISCLOSURES:

NAME	CAS#	% BY WEIGHT	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r) TQ
1,2,4-Trimethylbenzene	95-63-6	0.25 – 1.25				Y		
Naphthalene	91-20-3	0.03 – 0.25			100	Y	U165	

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
Naphthalene	91-20-3	10, 12, 13, 14, 15, 16, 17, 18, 19
Solvent Naphtha	64742-94-5	12, 13, 14, 15, 16, 17, 18, 19
1, 2, 4-Trimethylbenzene	95-63-6	12, 13, 14, 15, 16, 17, 18, 19

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	7 = TSCA 5e	13 = IL RTK	19 = PA RTK – N
2 = ACGIH A1	8 = TSCA 6	14 = LA RTK	20 = RI RTK
3 = ACGIH A2	9 = TSCA 12b	15 = MI 293	21 = MA RTK
4 = OSHA Z	10 = CA P65 CARC	16 = MN RTK	22 = MA RTK – N
5 = TSCA 4	11 = CA P65 REPRO	17 = NJ RTK	
6 = TSCA 5a2	12 = CA RTK	18 = PA RTK	

*Any RTK disclosure with “ – N” following it are nonhazardous and disclosed only due to % composition

Code key: CARC=Carcinogen; REPRO=Reproductive

Cal. Prop. 65



WARNING This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components: <0.3% Naphthalene, CAS no. 91-20-3 For more information go to: www.P65Warnings.ca.gov/petroleum.

SECTION 16

OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

NFPA Hazard ID:	Health: 0	Flammability: 1	Reactivity: 0
HMIS Hazard ID:	Health: 0	Flammability: 1	Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS: Removed H304 to properly match hazards

The information and recommendations contained herein are, to the best of Hydrotex Partners Ltd.'s knowledge and belief, accurate and reliable as of the date issued. You can contact Hydrotex Partners Ltd. to insure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users.