

astraidiagnostics Clear-Sub (Xylene Substitute)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 15 DEC 2022

SECTION 1: Identification

Identification

Product form : Substance

: Clear-Sub (Xylene Substitute) Product name

Product code : 3344-G

Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.

Recommended use : Laboratory chemicals

Restrictions on use : Not for food, drug or household use

1.3. Supplier

Astral Diagnostics Inc.

Logan Township NJ 08085 - United States

T +1 856 224 0900

800-441-0366 Technical Service; Monday-Friday: 8:00 AM-5:00 PM, Eastern US Time

www.ethosbiosciences.com

Emergency telephone number

Emergency number : 800-424-9300 CHEMTREC (USA) -- 24 Hours/Day, 7 Days/Week

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

Flammable liquid and vapor H226 Flammable liquids, Category 3

Aspiration hazard, Category 1 H304 May be fatal if swallowed and enters airways.

Long-term (chronic) aquatic hazard,

H413 May cause long lasting harmful effects to aquatic life. Category 4

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS02

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways.

H413 - May cause long lasting harmful effects to aquatic life.

Precautionary statements (GHS-US) : P210 - Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P273 - Avoid release to the environment.

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P280 - Wear protective gloves/ eye protection/ face protection.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/ shower. P331 Do NOT induce vomiting.

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification

: None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name	Product identifier	%	GHS-US classification
Naphtha (petroleum), heavy alkylate	(CAS-No.) 64741-65-7		Flam. Liq. 3, H226 Asp. Tox. 1, H304
			Aquatic Chronic 4, H413

3.2. Mixtures

Not applicable

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 general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get

medical advice/attention. Call a POISON CENTER or doctor/physician.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with

water for several minutes. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON

CENTER or doctor/physician if you feel unwell.

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

Symptoms/effects : Suspected of damaging fertility or the unborn child. Causes damage to organs.

Symptoms/effects after inhalation : Dizziness. Headache.

Symptoms/effects after skin contact : May stain the skin. Visual disturbances.

Symptoms/effects after eye contact : May cause slight irritation.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard. Blindness. Visual disturbances. Vomiting. Nausea. Dizziness. Drunkenness. Central nervous

system depression.

4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapor. Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapors possible in the event of fire.

Explosion hazard : Forms explosive mixtures with air at elevated temperatures.

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5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No

smoking.

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves. Combined gas/dust mask with filter type A/P3.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing mist, spray.

Emergency procedures : Ventilate area

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when : Handle empty containers with care because residual vapors are flammable.

processed Precautions for safe : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation.

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Do not breathe mist, vapors, spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources,

Ignition sources, incompatible materials. Keep in fireproof place. Keep container tightly closed.

Incompatible products : Strong oxidizers.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Naphtha (petroleum), heavy alkylate (64741-65-7)		
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	400 mg/m³
NIOSH	NIOSH REL (TWA) (mg/m³)	400 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm

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8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses.





Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Chemical resistant apron

Respiratory protection:

Appropriate respiratory protection against organic vapors when vapors or aerosols are generated

Other information:

Oxidizing properties

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Colorless, clear
Odor : Characteristic
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available

Flash point : 43 $^{\circ}$ C

Relative evaporation rate (butyl acetate=1) : No data available Relative evaporation rate (ether=1) : No data available

Flammability (solid, gas) : Flammable liquid and vapor.

Vapor pressure : No data available : No data available Vapor pressure at 50 ℃ Relative vapor density at 20 ℃ : No data available Relative density ~0.79 at 20°C Solubility No data available Log Pow : No data available Auto-ignition temperature Decomposition No data available temperature No data available Viscosity, kinematic : No data available Viscosity, dynamic : 1 - 7 vol % **Explosion limits** : No data available Explosive properties : No data available

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: No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapor/air-mixtures are explosive at intense warming.

Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.3. Possibility of hazardous reactions

Violent reactions possible with strong oxidizers.

10.4. **Conditions to avoid**

Heat. Open flame.

Incompatible materials 10.5.

Strong oxidizers.

Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

: Inhalation; Skin and eye contact Likely routes of exposure

: Oral: May be fatal if swallowed and enters airways. Acute toxicity

Naphtha (petroleum), heavy alkylate (64741-65-7)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Not classified Respiratory or skin sensitization Germ cell mutagenicity Not classified : May cause cancer. Carcinogenicity

2B - Possibly carcinogenic to humans IARC group

Reproductive toxicity : Not classified Specific target organ toxicity – single exposure : Not classified Specific target organ toxicity - repeated : Not classified

exposure

Aspiration hazard : May be fatal if swallowed and enters airways.

Potential Adverse human health effects and

symptoms

: Not classified

Symptoms/effects after inhalation : Not classified Symptoms/effects after skin contact : Not classified : Not classified Symptoms/effects after eye contact Symptoms/effects after ingestion : Not classified

SECTION 12: Ecological information

12.1. **Toxicity**

No data available

Persistence and degradability 12.2.

Naphtha (petroleum), heavy alkylate (64741-65-7)	
Persistence and degradability	Not readily biodegradable.

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12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Other adverse effects

Effect on the global warming : No known effects from this product

GWPmix comment : No known effects from this product

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : UN3295 Hydrocarbons, liquid, n.o.s. (Mineral spirits), 3, III

UN-No.(DOT) : 3295 DOT NA no. : UN3295

DOT Proper Shipping Name : Hydrocarbons, liquid, n.o.s.

Mineral spirits

Department of Transportation (DOT) Hazard

Classes

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102) : 144 - If transp

144 - If transported as a residue in an underground storage tank (UST), as defined in 40 CFR

280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see 171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter.

B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

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T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) 150 DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 242 DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

SECTION 15: Regulatory information

15.1. US Federal regulations

Naphtha (petroleum), heavy alkylate (64741-65-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
SARA Section 311/312 Hazard Classes	Fire hazard

15.2. International regulations

CANADA

Naphtha (petroleum), heavy alkylate (64741-65-7)	
Listed on the Canadian DSL (Domestic Substance	es List)
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16: Other information

: 15 DEC 2022 Revision date

Full text of H-phrases:

H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H413	May cause long lasting harmful effects to aquatic life

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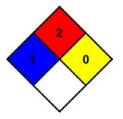
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high

temperature before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,



Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 2 Moderate Hazard
Physical : 0 Minimal Hazard

Personal Protection : H

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