

SAFETY DATA SHEET

SDS: 0062889
Date Prepared: 20-Jan-2021

Version: 2
Page 1 of 12

1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: SOLVENT HA
Product Description: Not available
Intended/Recommended Use: solvent
Uses advised against: Not available

Allnex New Zealand Ltd.
14 Industry Road, Penrose, Auckland 1061, New Zealand

For Product and all Non-Emergency Information call +64 (09) 583 6500 (business hours only) or contact us at <http://www.allnex.com/contact>

EMERGENCY TELEPHONE NUMBER (24 hours/day) - For emergency only involving spill, leak, fire, exposure or accident call:

+64 0800 803 002 (Allnex New Zealand)
See Section 16 for Emergency phone numbers for other regions.

2. HAZARDS IDENTIFICATION

Regulatory information

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017

EPA New Zealand HSNO approval code or group standard: HSR001227

GHS Classification

Flammable Liquids Hazard Category 2 - HSNO 3.1B
Toxic To Reproduction Hazard Category 2 - HSNO 6.8B
Target Organ Systemic Toxicant (TOST) - Repeated Exposure Hazard Category 2 - HSNO 6.9B
Specific Target Organ Toxicity (STOT) - Single Exposure Hazard Category 3 – HSNO 6.9B (narcotic effects)
Skin Corrosion / Irritation Hazard Category 2 - HSNO 6.3A
Serious Eye Damage / Eye Irritation Hazard Category 2A - HSNO 6.4A
Aspiration Hazard Category 1 - HSNO 6.1E (aspiration hazard)
Aquatic Environment Acute Hazard Category 2 - HSNO 9.1D
Aquatic Environment Chronic Hazard Category 3 - HSNO 9.1C

LABEL ELEMENTS



Signal Word

Danger

Hazard Statements

Highly flammable liquid and vapour

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure

May cause drowsiness or dizziness

Causes skin irritation

Causes serious eye irritation

May be fatal if swallowed and enters airways

Toxic to aquatic life

Harmful to aquatic life with long lasting effects

Precautionary Statements**Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take action to prevent static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. Avoid release to the environment.

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use CO₂, dry chemical, or foam to extinguish. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see supplemental first aid instructions on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 advice/attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Storage

Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Disposal

Dispose of contents/container in accordance with local and national regulations.

OTHER HAZARDS

Not applicable

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance, Mixture or Article? Substance

Component / CAS No.

Toluene
108-88-3

%
> 99.5

4. FIRST-AID MEASURES**Emergency telephone number**

Poisons Information Centre, New Zealand: 0800 764 766

First-aid Measures

Inhalation:

Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur. Get medical attention immediately if symptoms occur.

Skin Contact:

Remove contaminated clothing and shoes without delay. Wash immediately with plenty of water. Do not reuse contaminated clothing without laundering. Get medical attention if pain or irritation persists after washing or if signs and symptoms of overexposure appear.

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion:

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Most Important Symptoms and Effects, Acute and Delayed

Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Immediate Medical Attention and Special Treatment

Notes To Physician:

Because of the danger of aspiration, emesis or gastric lavage should not be used unless the risk is justified by the presence of additional toxic substances.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Carbon dioxide. dry chemical. Alcohol resistant foam. Water spray.

Unsuitable Extinguishing Media:

full water jet.

Protective Equipment:

Move containers from fire area if it can be done without risk. Firefighters, and others exposed, wear self-contained breathing apparatus. Wear full firefighting protective clothing. See SDS Section 8 (Exposure Controls/Personal Protection).

Special Hazards:

May be ignited by heat, sparks or flames. When heated, vapours may form explosive mixtures with air: indoors, outdoors and sewers explosion hazards. Containers may explode when heated or if contaminated with water. Flammable. Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

HAZCHEM Code: 3YE

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take action to prevent static discharge. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Methods For Containment:

Stop leak if safe to do so. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods For Cleaning Up:

Take action to prevent static discharge. Dam up. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush spill area with water.

Environmental Precautions:

Avoid release to the environment.

References to other sections:

See Sections 7, 8 and 13 for additional information.

7. HANDLING AND STORAGE

Handling

Precautions: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take action to prevent static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. Avoid release to the environment.

Special Handling Statements: Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharge. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes without delay. Ensure adequate ventilation. Take off contaminated clothing and wash it before reuse.

Storage

Keep container tightly closed and dry in a cool, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of reach of children. Store separately.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS - Limits

Toluene 108-88-3

New Zealand:	50 ppm (TWA) 188 mg/m ³ (TWA) (skin)
ACGIH (TLV):	20 ppm (TWA)

Biological Exposure Limit(s)**Toluene 108-88-3**

Biological Exposure Indices	0.03 mg/L (urine - end of exposure or end of shift) 0.3 mg/g creatinine (urine - end of exposure or end of shift)
-----------------------------	--

Engineering Measures:

Ensure adequate ventilation, especially in confined areas.

Respiratory Protection:

Where exposures exceed the established exposure limit, use respiratory protection recommended for the material and level of exposure. Where exposures are below the established exposure limit, no respiratory protection is required. Where respiratory protection is required, use a respirator selected and in accordance with AS/NZS 1715 and AS/NZS 1716.

Eye protection:

Tight sealing safety goggles. Face protection shield.

Skin Protection:

Antistatic footwear. Wear fire/flammable resistant/retardant clothing. Gloves made of plastic or rubber. Wear suitable protective clothing. Apron.

Additional Advice:

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Colour:	colourless
Appearance:	clear liquid
Odor:	aromatic
Odor Threshold:	See Section 8 for exposure limits.
pH:	Not applicable
Melting Point:	-95 °C
Boiling Point:	110 - 111 °C
Flash point:	4 °C
Evaporation Rate:	6.1
Flammable Limits (% By Vol):	Lower: 1.2 Upper: 7.1
Vapor Pressure:	30 - 35 hPa, 20°C
Vapour density:	3.1
Specific Gravity/Density:	0.87 g/cm ³ @ 15 °C
Solubility In Water:	0.515 g/L
Partition coefficient (n-octanol/water):	2.65
Autoignition temperature:	480 - 536 °C

Decomposition Temperature: Not available
Viscosity (Kinematic): Not applicable
Viscosity (Dynamic): Not available No information available
Flammability: Not available
Oxidizing Properties: Not available

OTHER INFORMATION

Fat Solubility (Solvent-Oil): Not available
Percent Volatile (% by wt.): 100
Solids Content: Not available
Saturation In Air (% By Vol.): Not available
Acid Number (mg KOH/g): Not available
Hydroxyl Value (mg KOH/g): Not available
Volatile Organic Content (1999/13/EC): Not available

10. STABILITY AND REACTIVITY

Reactivity: No information available
Stability: Stable
Conditions To Avoid: Heat, flames and sparks.
Materials To Avoid: Strong acids
Strong bases
Strong oxidizing agents.
Hazardous Decomposition Products: oxides of carbon

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Respiratory System, Skin, Eyes, Oral.

HEALTH HAZARD INFORMATION

Acute toxicity - oral: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Acute toxicity - dermal: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Acute toxicity - inhalation: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Skin corrosion / irritation: Causes skin irritation

Serious eye damage / eye irritation: Causes serious eye irritation

Respiratory sensitization: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Skin sensitization: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Carcinogenicity: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Germ cell mutagenicity: Not Classified - Based on available data and/or professional judgment, the classification criteria are not met.

Reproductive toxicity: Suspected of damaging fertility or the unborn child

Specific target organ toxicity (single exposure): May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: May be fatal if swallowed and enters airways

PRODUCT TOXICITY INFORMATION

ACUTE TOXICITY DATA

oral	rat	Acute LD50	> 2000	mg/kg
dermal	rabbit	Acute LD50	> 2000	mg/kg
inhalation	rat	Acute LC50	4 hr	12.50 mg/l (Dust/Mist)

Specific target organ toxicity (single exposure): May cause drowsiness or dizziness.

LOCAL EFFECTS ON SKIN AND EYE

Acute Irritation	Skin	Irritating to skin.
Acute Irritation	eye	Irritating

ALLERGIC SENSITIZATION

Sensitization	Skin	No information available
Sensitization	respiratory	No information available

SUBACUTE/SUBCHRONIC TOXICITY

Specific target organ toxicity (repeated exposure): May cause damage to neurologic systems (neuropsychological effects, auditory dysfunction and effects on colour vision) through prolonged or repeated exposure by inhalation. .

GENOTOXICITY

Assays for Gene Mutations

Ames Salmonella Assay No data

Reproductive toxicity

Contains a known or suspected reproductive toxin

Chronic toxicity

Contains a known or suspected reproductive toxin. Avoid repeated exposure. May cause adverse liver effects.

OTHER INFORMATION

May be fatal if swallowed and enters airways

The product toxicity information above has been estimated.

HAZARDOUS INGREDIENT TOXICITY DATA

Toluene has acute oral (rat) and dermal (rabbit) LD50 values of 4,328 mg/kg and 12124 mg/kg, respectively. The acute 4-hour inhalation (rat, female) LC50 value is 5,060 ppm (19.07 mg/L). Toluene is a severe eye and moderate

skin irritant. Inhalation overexposure to toluene vapor can cause headache, fatigue, nausea, and central nervous system depression. Sustained inhalation of high levels of toluene has been shown to cause reversible kidney and liver damage. Subchronic inhalation of toluene vapors have caused permanent hearing loss, decreased learning capabilities and damage to the eyes in laboratory animal tests. Deliberate inhalation of high concentrations of toluene vapor by pregnant women has been shown to adversely affect the fetus. These fetotoxic effects include intrauterine growth retardation and delayed postnatal development. The fetotoxic effects of toluene seen in laboratory animals are similar to those seen in humans. Ingestion of toluene in laboratory animals caused mild gastritis and harmful effects on the respiratory system, kidneys, liver and heart. Ingestion in laboratory animals also caused harmful effects on the central nervous system and death. It has also been reported that subchronic ingestion of toluene caused brain and bladder damage in laboratory animals. Due to synergistic effects, the toxicity of toluene may be enhanced by exposure to n-hexane, benzene, xylene, acetylsalicylic acid and chlorinated hydrocarbons. The literature reports that toluene is an aspiration hazard, that acute oral exposure resulted in reversible visual dysfunction, and that chronic exposure has caused altered immune function in animals. Toluene is a chemical known to the State of California to cause reproductive toxicity.

12. ECOLOGICAL INFORMATION

Overall Environmental Toxicity: Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

The ecological assessment for this material is based on an evaluation of its components.

ECOTOXICITY

Not available

BIOACCUMULATIVE POTENTIAL

Not available

PERSISTENCE AND DEGRADABILITY

Not available

MOBILITY IN SOIL

Not available

OTHER ADVERSE EFFECTS

HAZARD TO THE OZONE LAYER

Not available

HAZARDOUS INGREDIENT TOXICITY DATA

Component / CAS No.	Toxicity to Fish
Toluene (108-88-3)	LC50 = 5.5 mg/L - Oncorhynchus kisutch (96h)

	NOEC = 1.4 mg/L - Oncorhynchus kisutch (40d)
--	--

Component / CAS No.	Toxicity to Water Flea
Toluene (108-88-3)	EC50 = 3.78 mg/L - Ceriodaphnia dubia (48h) NOEC = 0.74 mg/L - Ceriodaphnia dubia(7d)

Component / CAS No.	Toxicity to Algae
Toluene (108-88-3)	EC50 = 134 mg/L - Chlorella vulgaris (3h) - reduced photosynthesis rate NOEC = 10 mg/L - Skeletonema costatum (72h)

Component / CAS No.	Partition coefficient
Toluene (108-88-3)	2.7

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

The company encourages the recycle and reuse of products and packaging, where possible and permitted.

Product disposal

When recycle or reuse is not possible, the company recommends that our products, especially when classified as hazardous, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

Packaging disposal

Handle contaminated packages in the same way as the product itself. Disposal of emptied and cleaned packaging must be made in accordance with applicable local and national regulations.

Disposal-relevant information

Do not release directly or indirectly to surface water, ground water, soil or public sewage system.

14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

Road transport

Dangerous Goods? X
 PROPER SHIPPING NAME: TOLUENE
 Hazard Class: 3
 UN Number: UN1294
 Packing Group: II
 Transport Label Required: Flammable liquid
 HAZCHEM Code: 3YE
 IERG: 16

IMO

Dangerous Goods? X
 UN PROPER SHIPPING NAME: TOLUENE
 Transport Hazard Class: 3

UN Number: UN1294
Packing Group: II
Transport Label Required: Flammable liquid

ICAO / IATA

Dangerous Goods? X
UN PROPER SHIPPING NAME: TOLUENE
Transport Hazard Class: 3
Packing Group: II
UN Number: UN1294
Transport Label Required: Flammable liquid

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question

Ozone Depleting Substances (Regulation (EC) No 1005/2009): Not applicable
Persistent Organic Pollutants (Regulation (EC) No 850/2004): Not applicable

EPA New Zealand HSNO approval code or group standard: HSR001227

Health and Safety at Work Hazardous Substances Regulations 2017

Tracking:

This product is not a Tracked Substance.

Certified Handler:

This product does not require a certified handler.

Controlled Substance: Not applicable

Inventory Information

New Zealand: This product is approved or exempt under the Hazardous Substances and New Organisms (HSNO) Act.

Australia: All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on AIIC.

European Economic Area (including EU): When purchased and shipped from an Allnex legal entity based in the EEA (EU or Norway), this product is compliant with the registration of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt and/or registered.

United States (USA): All components of this product are designated as "Active" on the TSCA Inventory or are not required to be listed.

Canada: All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

China: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

Korea: All components of this product are included on the Korean (ECL) inventory or are not required to be listed on the Korean inventory. When purchased from Allnex Korea or Chemart distributor this product is compliant with the ARECs (the Act on the Registration and Evaluation, etc. of Chemical Substances). All its components are either excluded, exempt, pre-notified and/or registered. When purchased from another allnex entity, please contact PSRA-KREACH@allnex.com to check the possibility to be covered by our Only Representative.

Taiwan: All components of this product are included in the Taiwan chemical substance inventory or are not required to be listed on the Taiwan chemical substance inventory (TCSI).

16. OTHER INFORMATION

Reasons for Issue: Revised Section 9

Date Prepared: 20-Jan-2021

Date of last significant revision: 12-Jan-2021

Emergency phone numbers for other regions

Asia Pacific

Australia: +61 1800 022 037 (Allnex Australia)

China (PRC): +86(0)532 8388 9090 (NRCC)

India: 000 800 100 7479 (toll free) or +65 3158 1198 (Carechem 24)

Indonesia: 007 803 011 0293 (Carechem 24)

Japan: +81 345 789 341 (Carechem 24)

Korea: +82 2 3479 8401 (Carechem 24)

Malaysia: +60 3 6207 4347 (Carechem 24)

Philippines: +63 2 231 2149 (Carechem 24)

Taiwan: +886 2 8793 3212 (Carechem 24)

Vietnam: +84 8 4458 2388 (Carechem 24)

All Others: +65 3158 1074 (Carechem 24)

Europe

+44 (0) 1235 239 670 (Carechem 24)

Middle East, Africa

+44 (0) 1235 239 671 (Carechem 24)

Latin America

Brazil: +55-800-707-7022 (toll free) or +55-11-98149-0850 (Suatrans 24)

Chile: +56 2 2582 9336 (Carechem 24)

Mexico and all others: +52-555-004-8763 (Carechem 24)

Canada and USA

+1-866-928-0789 (toll free) or +1-215-207-0061 (Carechem 24 - Allnex29003-NCEC)

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
C	Carcinogen		

Prepared By: Product Stewardship & Regulatory Affairs Department, <http://www.allnex.com/contact>
New Zealand Contact Point: +64 (09) 583 6500

This information is given without any warranty or representation. We do not assume any legal responsibility for same, nor do we give permission, inducement, or recommendation to practice any patented invention without a license. It is offered solely for your consideration, investigation, and verification. Before using any product, read its label.

