SECTION 1. IDENTIFICATION

| ess, and telephone number of turer: |
|-------------------------------------|
| er |
| |
| |
| 6666 (CANUTEC). |
| - |

Classification of the chemical

Golden Viscous liquid. Solvent odor.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

```
Flammable Liquids - Category 2
Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects
Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory)
Sensitization, skin - Category 1
```

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Highly flammable liquid and vapour May cause an allergic skin reaction. May cause drowsiness and dizziness. May cause respiratory irritation. Precautionary statement(s)

Keep away from heat, sparks and open flame. - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment.

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Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapours. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam for extinction.

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

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

Other hazards

Other hazards which do not result in classification:

Ingestion may cause irritation of the mouth, throat and stomach. Contact with eyes may cause irritation. May cause mild skin irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Chemical name | Common name and synonyms | <u>CAS #</u> | Concentration |
|-------------------------------|----------------------------------|--------------|---------------|
| Ethyl acetate | Ethyl ethanoate Acetoxyethane | 141-78-6 | 34.8 |
| SECTION 4. FIRST-AID MEASURES | | | |

Description of first aid measures

| Description of first aid m | easures |
|----------------------------|--|
| Ingestion | : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. |
| Inhalation | Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Skin contact | Wash affected areas with soap and water. Take off contaminated clothing and wash before re-use. Get medical attention if irritation develops and persists. |
| Eye contact | Flush with large amounts of water for 15 minutes. Remove contact lenses if present and easy to do. If irritation or symptoms develop, seek medical attention. |
| Most important symptom | is and effects, both acute and delayed |
| | : May cause central nervous system depression. May cause headache, nausea, |

: May cause central nervous system depression. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May cause respiratory irritation. Symptoms may include coughing, choking and wheezing. May cause an allergic skin reaction. Symptoms may include redness, itching and swelling. Direct skin contact may cause temporary redness. Direct eye contact may cause temporary redness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. This product is a CNS depressant.

SECTION 5. FIRE-FIGHTING MEASURES

| SECTION 5. FIRE-FIGHTING | MEASURES |
|--|--|
| Extinguishing media | |
| Suitable extinguishing media | |
| | : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical. |
| Unsuitable extinguishing media | |
| | : Do not use a solid water stream as it may scatter and spread fire. |
| Special hazards arising from the | substance or mixture / Conditions of flammability |
| Flammability classification (OSH | Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapour can travel considerable distance and flashback to a source of ignition.Vapours are heavier than air and collect in confined and low-lying areas. IA 29 CFR 1910.106) |
| | : Flammable Liquids - Category 2 |
| Hazardous combustion products | 3 |
| | : Carbon dioxide and carbon monoxide. Other unidentified organic compounds . |
| Special protective equipment an Protective equipment for fire-fig | |
| breathing apparatus. Special fil | : Firefighter should wear full protective clothing including self contained re-fighting procedures |
| | : Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment. |
| SECTION 6. ACCIDENTAL R | ELEASE MEASURES |
| Personal precautions, protective | e equipment and emergency procedures |
| Environmental precautions Methods and material for contain | All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading. |
| | : Remove all sources of ignition. Ventilate the area. Prevent further leakage or spillage |
| | if safe to do so.Dike for water control.Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. |
| Special spill response procedure | 9 5 |
| | : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). Ethyl acetate (5000 lbs / 2270 kg) Methyl methacrylate (1000 ibs/ 454 kg) |

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Use only outdoors or in a well-ventilated area. Wear suitable protective equipment. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from heat and open flames. - No smoking. Use only non-sparking tools. Use explosionproof electrical/ventilating/lighting/equipment. Keep away from oxidizing agents. Keep away from incompatibles. Label containers appropriately. Wash thoroughly after handling. Keep containers closed when not in use. Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

| Conditions for safe storage | • | Keep away from heat, sparks and open flame No smoking. Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Keep cool. Keep container tightly closed.Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. |
|-----------------------------|-----|--|
| Incompatible materials | : | Strong oxidizers (e.g. Chlorine, Peroxides, etc.). |
| SECTION 8. EXPOSURE CO | NTI | ROLS / PERSONAL PROTECTION |

Exposure Limits: Chemical Name ACGIH TLV OSHA PEL TWA PEL 100 pm Ethyl acetate 400 ppm N/Av

Exposure controls

Ventilation and engineering measures

| Respiratory protection | Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value. Respiratory protection is required if the concentrations exceed the TLV. Use a NIOSH approved dust respirator if dust levels exceed exposure limits. Seek advice from respiratory protection specialists. | |
|--------------------------------|--|--|
| Skin protection | Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. | |
| Eye / face protection | Chemical goggles must be worn to prevent dusts from entering the eyes. | |
| Other protective equipment | Wear appropriate protective clothing to prevent skin contact, such as coveralls or long sleeved shirt, long pants, and shoes and socks. Wear protective gloves. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards. | |
| General hygiene considerations | | |
| | Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. | |

| SECTION 9. PHYSICAL AND |) CI | HEMICAL PROPERTIES |
|-----------------------------------|------|---------------------------|
| Appearance | : | Golden viscous liquid. |
| Odour | : | Solvent odor. |
| Odour threshold | : | 18-32 ppm |
| рН | : | No information available. |
| Melting/Freezing point | : | Not available. |
| Initial boiling point and boiling | ang | |
| | : | Not available. |
| Flash point | : | -4°C |
| Flashpoint (Method) | : | closed cup |
| Evaporation rate (BuAe = 1) | : | No information available. |
| Flammability (solid, gas) | : | Not applicable. |
| Lower flammable limit (% by vo | I.) | |
| | : | Not available. |
| Upper flammable limit (% by vo | l.) | |
| | : | Not available. |
| Oxidizing properties | : | None known. |
| Explosive properties | : | Not explosive |
| | | |

| Vapour pressure Vapour density Relative density / Specific gravity | - | 9.7 kPa 3 |
|--|-----|---|
| Solubility in water Other solubility(ies) | :: | Not available. Insoluble. No information available. |
| Partition coefficient: n-octanol/w | ate | er or Coefficient of water/oil distribution |
| | : | Not available. |
| Auto-ignition temperature | : | Not available. |
| Decomposition temperature | : | No information available. |
| Viscosity | : | 275 |
| Volatiles (% by weight) | : | 68% |
| Volatile organic Compounds (VO | C's | 6) |
| | : | 675 g/L |
| Absolute pressure of container | | |
| | : | N/Ap |
| Flame projection length : | | N/Ap |
| Other physical/chemical commen | nts | |
| | : | No additional information. |

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| SECTION 10. STABILITY ANI | STABILITY AND REACTIVITY | | | |
|---------------------------|--------------------------|---------------------------------|--|--|
| Reactivity | : | Not normally reactive. | | |
| Chemical stability | : | Stable under normal conditions. | | |

: May cause respiratory tract irritation.Symptoms may include coughing, choking and wheezing.

Sign and symptoms ingestion

| S | Sign an | nd sym | ptom | s skin | |
|---|---------|--------|------|--------|--|

Sign and symptoms eyes

- : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- : May cause mild skin irritation on prolonged contact.

: Direct eye contact may cause slight redness.

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| : | |
|--|--|
| Potential Chronic Health Effects | |
| : | Prolonged exposure can cause redness, swelling, itching, cracking of the skin, dermatitis and sensitization. |
| Mutagenicity | Not expected to be mutagenic in humans. |
| Possibility of hazardous reactions | |
| | Hazardous polymerization does not occur. |
| Conditions to avoid | Keep away from heat, direct flame and other ignition sources. Do not use in areas without adequate ventilation. Keep away from direct sunlight. Avoid contact with incompatible materials. |
| Incompatible materials Hazardous decomposition produc | Strong oxidizers (e.g. Chlorine, Peroxides, etc.). ts |
| | None known, refer to hazardous combustion products in Section 5. |

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

| Ingredients | CAS No | Toxicity to Daphnia | | | |
|---------------------------------------|---|---|--|-------------|--|
| | | EC50 / 48h | NOEC / 21 day | Factor | |
| Ethyl acetate | 141-78-6 | > 100 mg/L | N/Av | None. | |
| Routes of entry inhalation : : YES | YES Routes o | f entry skin & eye | : YES Routes of entry | y Ingestion | |
| Routes of exposure skin absor | ption | | | | |
| | : NO | | | | |
| Potential Health Effects: | | | | | |
| Signs and symptoms of short- | term (acute) exposure | 9 | | | |
| Sign and symptoms Inhalation | | | | | |
| Carcinogenicity | No components | are listed as carcinogens | by ACGIH, IARC, OSHA or NT | P. | |
| Reproductive effects & Teratog | • • | | | | |
| | : Not expected to | have other reproductive e | effects. | | |
| Sensitization to material | This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Skin sensitization - Category 1 May cause allergic skin reaction. Not expected to be a respiratory sensitizer. | | | | |
| Specific target organ effects | 1910.1200) (Haz Regulations) (W Specific target (| zcom 2012) and Canadiar HMIS 2015). Classificatio organ toxicity, single expo | | | |
| | The substance of exposure. | or mixture is not classified | as specific target organ toxican | t, repeated | |
| Medical conditions aggravated | • • | | | | |
| | : Pre-existing skin, e | ye and respiratory disorde | ers. | | |
| Synergistic materials | : No information ava | ilable. | | | |
| Toxicological data | | le data for the product itse ingredient acute toxicity of | elf, only for the ingredients. See data. | • | |

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| | : | | | |
|---------------|--|--------------|------------------|--|
| | LC50(4hr) | LD | | |
| Chemical name | inh, rat | (Oral, rat) | (Rabbit, dermal) | |
| Ethyl acetate | 8000 - 16 000 ppm (28.8 - 57.7 mg/L) (vapour) | 10 200 mg/kg | > 18 000 mg/kg | |

Other important toxicological hazards

: See Section 2 for additional information.

SECTION 12. ECOLOGICAL INFORMATION

:

Ecotoxicity

The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

| | | Toxicity to Fish | | | | | |
|---------------|----------|------------------|---------------|----------|--|--|--|
| Ingredients | CAS No | LC50 / 96h | NOEC / 21 day | M Factor | | | |
| Ethyl acetate | 141-78-6 | > 100 mg/L | N/Av | None. | | | |

| Ingredients | CAS No | Toxicity to Algae | | | |
|---------------|----------|-------------------|-------------------|----------|--|
| | | EC50 / 96h or 72h | NOEC / 96h or 72h | M Factor | |
| Ethyl acetate | 141-78-6 | > 100 mg/L/72hr | N/Av | None. | |

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| Persistence and degradability | | |
|--------------------------------|---|---|
| | : No data is available on the product itself. | |
| Bioaccumulation potential : | No data is available on the product itself. | |
| | | |
| <u>Components</u> | Partition coefficent n-octanol/ater (log Kow) | Bioconcentration factor (BCF) |
| Ethyl acetate (CAS 141-78-6) | 0.73 | 30 species: fish |
| Mobility in soil | : This material has low solubility and floats, and is e land. | expected to migrate from water to the |
| Other Adverse Environmental ef | fects | |
| | : No data is available on the product itself. | |
| SECTION 13. DISPOSAL CON | SIDERATIONS | |
| | | |
| Handling for Disposal | : Handle waste according to recommendations in Sec hazardous residues. | ction 7. Empty containers may contain |
| Methods of Disposal | : Dispose in accordance with all applicable federal, st | tate, provincial and local regulations. |
| RCRA | : If this product, as supplied, becomes a waste in the a hazardous waste as defined under RCRA, Title 40 waste generator to determine the proper waste iden | OCFR 261. It is the responsibility of the |

| Regulatory nformation | UN Number | UN proper shipping name | Transport hazard class(es) | Packing Group | Label |
|--|--------------------------|---|----------------------------------|------------------|----------|
| TDG TDG | UN1210 | PRINTING INK | 3 | II | 3 |
| Additional information | | is a Limited Quantity when transported in containers no larger th (66 pounds) gross mass. | n 5 L (1.3 gallon | s); in packa | es not |
| 49CFR/DOT | UN1210 | PRINTING INK | 3 | II | 3 |
| 49CFR/DOT Additional information | Limited Quantity CFR. | exemption may be used if product is in containers or 5 Litres or I | ss, per Section | 173.150 of 4 |) |

Special precautions for user Environmental hazards

: See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code : This information is not

available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

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| Ingredients | CAS # | TSCA Inventory | CERCLA Reportable | SARA TITLE III: Sec. 302, Extremely Hazardous | . | 64 ic Toxic nical | |
|---------------|----------|-------------------|-----------------------------------|--|----------------|-----------------------------|--|
| ingreatents | CA3 # | | Quantity(RQ) (40 CFR 117.302): | Substance, 40 CFR 355: | Toxic Chemical | de minimus Concentration | |
| Ethyl acetate | 141-78-6 | Yes | 5000 lb/ 2270 kg | None. | No | N/Ap | |

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Acute Health Hazard Fire Hazard

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

| Ingredients | CAS # | California Proposition 65 State "Right to Know" Lists | | | | | ists | | |
|---------------|----------|---|------------------|-----|-----|-----|------|-----|-----|
| ingredients | CA3 # | Listed | Type of Toxicity | CA | MA | MN | NJ | РА | RI |
| Ethyl acetate | 141-78-6 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |

Canadian Information:

All ingredients are present on the DSL. WHMIS Classification: See Section 2.

International Information:

Components listed below are present on the following International Inventory list:

TLV: Threshold Limit Values

| Ingredients | CAS # | European EINECs | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
|------------------------------|----------|--------------------|-------------------|----------------------|------------|--------------------|----------------|-------------------|
| Ethyl acetate | 141-78-6 | 205-500-4 | Present | Present | (2)-726 | KE-00047 | Present | HSR001041 |
| RECTION 17 OTHER INFORMATION | | | | | | | | |

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Services CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 CFR: Code of Federal Regulations **CNS: Central Nervous System** DOT: Department of Transportation EPA: Environmental Protection Agency EINECS: European Inventory of Existing Commercial chemical Substances IARC: International Agency for Research on Cancer IBC: Intermediate Bulk Container IMDG: International Maritime Dangerous Goods Inh: Inhalation LC: Lethal Concentration LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Available NIOSH: National Institute of Occupational Safety and Health NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration PEL: Permissible exposure limit RCRA: Resource Conservation and Recovery Act RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act STEL: Short Term Exposure Limit TDG: Canadian Transportation of Dangerous Goods Act & Regulations

| | TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System | | | | | | |
|---|--|--|--|--|--|--|--|
| References | 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2015. | | | | | | |
| | 2. International Agency for Research on Cancer Monographs, searched 2015 3. | | | | | | |
| | Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 | | | | | | |
| | (Chempendium, HSDB and RTECs). | | | | | | |
| | 4. Material Safety Data Sheets from manufacturer. | | | | | | |
| | 5. US EPA Title III List of Lists - 2015. | | | | | | |
| | 6. California Proposition 65 List - 2015 | | | | | | |
| Preparation Date (mm/dd/yyyy) | | | | | | | |
| | : 03/04/2019 | | | | | | |
| Other special considerations for handling | | | | | | | |

: Provide adequate information, instruction and training for operators.

Prepared by:

Quest Inks& Coatings 2401 Anson Drive Mississauga, ON L5S 1G1 905-405-0041 www.questinks.com

DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF DOCUMENT