1 Identification of the substance/mixture and of the company

· Product identifier
  · Trade name: A Thinner
  · Product number: M030100
  · CAS Number: 100-66-3
  · EC number: 202-876-1
· Application of the substance / the mixture Thinner, Diluent

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier: MicroChem Corp.
    200 Flanders Road
    Westborough, MA 01581 USA
  · Information department:
    Product Safety
    Email: productsafety@microchem.com
  · Emergency telephone number:
    MicroChem Corp : 617-965-5511
    Chemtrec USA Emergency : 800-424-9300
    Chemtrec International Emergency : 703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

  GHS02 Flame

  Flam. Liq. 3 H226 Flammable liquid and vapor.

  GHS07

  Acute Tox. 4 H332 Harmful if inhaled.
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2A H319 Causes serious eye irritation.
  STOT SE 3 H335 May cause respiratory irritation.

· Label elements
  · GHS label elements
    The substance is classified and labeled according to the Globally Harmonized System (GHS).
  · Hazard pictograms

    GHS02 GHS07

· Signal word Warning

· Hazard-determining components of labeling:
  Anisole

(Contd. on page 2)
Trade name: A Thinner

- **Hazard statements**
  - H226 Flammable liquid and vapor.
  - H332 Harmful if inhaled.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H335 May cause respiratory irritation.

- **Precautionary statements**
  - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P312 Call a POISON CENTER or doctor/physician if you feel unwell.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P370+P378 In case of fire: Use for extinction: Alcohol resistant foam.
  - P370+P378 In case of fire: Use for extinction: Fire-extinguishing powder.
  - P370+P378 In case of fire: Use for extinction: Carbon dioxide.
  - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
  - NFPA ratings (scale 0 - 4)
  - Health = 1
  - Fire = 2
  - Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  - Health = 1
  - Fire = 2
  - Reactivity = 0

- **Other hazards**
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**
  - 100-66-3 anisole
- **Identification number(s)**
- **EC number:** 202-876-1

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
  Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.
- **After skin contact:**
  Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
Trade name: A Thinner

- After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
  Do not induce vomiting unless instructed to do so by a physician. Wash out mouth with water and keep person at rest. Seek immediate medical attention.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
  No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  Suitable extinguishing agents:
  - Alcohol resistant foam
  - Fire-extinguishing powder
  - Carbon dioxide
- For safety reasons unsuitable extinguishing agents:
  - Water with full jet
  - Water
- Special hazards arising from the substance or mixture
  Containers may explode due to pressure increase when container is exposed to extreme heat. Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail.
- Advice for firefighters
  - Protective equipment: Wear SCBA.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation
  Keep away from ignition sources
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Ensure adequate ventilation.
  Do not flush with water or aqueous cleansing agents
- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- Handling:
- Precautions for safe handling
  Store in cool, dry place in tightly closed containers.
  Ensure good ventilation/exhaust at the workplace.
  Keep receptacles tightly sealed.
- Information about protection against explosions and fires:
  Keep ignition sources away - Do not smoke.
Trade name: A Thinner

- Protect against electrostatic charges.
- Use explosion-proof apparatus / fittings and spark-proof tools.

- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and containers:
    Store in inert atmosphere or keep well sealed to prevent the formation of peroxides and other oxidation products.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:
    Keep container tightly sealed.
    Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
  - Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      Wash hands before breaks and at the end of work.
      Immediately remove all soiled and contaminated clothing.
      Keep away from food and beverages.
      Avoid contact with the eyes and skin.
    - Respiratory equipment:
      In case of low exposure, use cartridge respirator. In case of intensive or longer exposure, use SCBA.

- Protection of hands:
  - Protective gloves
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Material of gloves
    VITON®
    Nitrile rubber, NBR
  - Penetration time of glove material Contact glove manufacture for break-through time.

- Eye protection:
  - Tightly sealed goggles

9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Form: Liquid
### 3.8.0 Color:
Colorless

### 3.9.0 Odor:
Strong

### 3.9.1 Odour threshold:
Not determined.

### 3.10.0 pH-value:
Not determined.

### 3.11.0 Change in condition
- **Melting point/Melting range:** -37 °C (-35 °F)
- **Boiling point/Boiling range:** 184 °C (363 °F)

### 3.12.0 Flash point:
43 °C (109 °F)

### 3.13.0 Flammability (solid, gaseous):
Not applicable.

### 3.14.0 Ignition temperature:
475 °C (887 °F)

### 3.15.0 Decomposition temperature:
Not determined.

### 3.16.0 Auto igniting:
Not determined.

### 3.17.0 Danger of explosion:
Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

### 3.18.0 Explosion limits:
- **Lower:** Not determined.
- **Upper:** Not determined.

### 3.19.0 Vapor pressure at 20 °C (68 °F):
0.4 hPa

### 3.20.0 Density at 20 °C (68 °F):
1.02 g/cm³ (8.512 lbs/gal)

### 3.21.0 Relative density
Not determined.

### 3.22.0 Vapour density
Not determined.

### 3.23.0 Evaporation rate
Not determined.

### 3.24.0 Solubility in / Miscibility with Water at 20 °C (68 °F):
34 g/l

### 3.25.0 Partition coefficient (n-octanol/water):
Not determined.

### 3.26.0 Viscosity:
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.
- **Organic solvents:** 100.0 %
- **VOC content:** 100.0 %

### 3.27.0 Other information
No further relevant information available.

### 10. Stability and reactivity

#### Reactivity
- **Chemical stability:** Stable under normal use conditions
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Heat, flames and sparks. Extremes of temperature and direct sunlight.
- **Incompatible materials:** Strong Oxidizing Agents, Strong Acids, Strong Bases
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide
- **Phenol**
11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
  
  | 100-66-3 Anisole | Oral  | LD50  | 3700 mg/kg (Rat) |
  |                 | Dermal| LD50  | >5000 mg/kg (rabbit) |

- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: Strong irritant with the danger of severe eye injury.
  - Sensitization: No sensitizing effects known.

- Additional toxicological information:
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer)
      Substance is not listed.
    - NTP (National Toxicology Program)
      Substance is not listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity:
    
    | 100-66-3 Anisole | EC50/24 h | 40 mg/l (daphnia magna) |
    |                 | EC50/96 hr | 162 mg/l (green algae) |
    |                 | LC50/48 hr | 120 mg/L (Cyprinus carpio (common carp)) |

- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
  - Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 2 (Assessment by list): hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
    Danger to drinking water if even small quantities leak into the ground.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
  Must not be disposed of as regular garbage/trash. Do not allow product to reach sewage system.
  Disposal must be made in accordance with Federal, State, and Local regulations.
Trade name: A Thinner

- Uncleaned packagings:
  - Recommendation: Disposal must be made in accordance with Federal, State, and Local regulations.

### 14 Transport information

- **UN-Number**
  - DOT, ADR, IMDG, IATA: UN2222

- **UN proper shipping name**
  - ADR, IMDG, IATA: ANISOLE
  - DOT, IMDG, IATA: 2222 ANISOLE

- **Transport hazard class(es)**
  - DOT
    - Class: 3 Flammable liquids
    - Label: 3

  - ADR, IMDG, IATA
    - Class: 3 Flammable liquids
    - Label: 3

- **Packing group**
  - DOT, ADR, IMDG, IATA: III

- **Environmental hazards:**
  - Marine pollutant: No

- **Special precautions for user**
  - Warning: Flammable liquids
  - Danger code (Kemler): 30
  - EMS Number: F-E,S-D

- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
  - Not applicable.

- **UN "Model Regulation":**
  - UN2222, ANISOLE, 3, III

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - **Section 355 (extremely hazardous substances):**
      - Substance is not listed.
    - **Section 313 (Specific toxic chemical listings):**
      - Substance is not listed.
Trade name: A Thinner

· TSCA (Toxic Substances Control Act):
  Substance is listed.

· Proposition 65
  · Chemicals known to cause cancer:
    Substance is not listed.
  · Chemicals known to cause reproductive toxicity for females:
    Substance is not listed.
  · Chemicals known to cause reproductive toxicity for males:
    Substance is not listed.

· Chemicals known to cause developmental toxicity:
  Substance is not listed.

· Carcinogenic categories
  · EPA (Environmental Protection Agency)
    Substance is not listed.
  · TLV (Threshold Limit Value established by ACGIH)
    Substance is not listed.
  · NIOSH-Ca (National Institute for Occupational Safety and Health)
    Substance is not listed.
  · OSHA-Ca (Occupational Safety & Health Administration)
    Substance is not listed.

· New Jersey State Right To Know List
  100-66-3 Anisole

· California SCAQMD Rule 443.1 VOC’s: 993 g/l; vapor pressure 1.0 mm Hg @ 20C

· GHS label elements
  The substance is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms
  GHS02  GHS07

· Signal word Warning

· Hazard-determining components of labeling:
  Anisole

· Hazard statements
  H226 Flammable liquid and vapor.
  H332 Harmful if inhaled.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H335 May cause respiratory irritation.

· Precautionary statements
  P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  P280 Wear protective gloves/protective clothing/eye protection/face protection.
  P312 Call a POISON CENTER or doctor/physician if you feel unwell.
  P337+P313 If eye irritation persists: Get medical advice/attention.
Trade name: A Thinner

P370+P378 In case of fire: Use for extinction: Alcohol resistant foam.
P370+P378 In case of fire: Use for extinction: Fire-extinguishing powder.
P370+P378 In case of fire: Use for extinction: Carbon dioxide.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Product safety department

Contact: Mr. Cole

Revision History:
The business address of the manufacturer in Section 1 was updated. The hazard classification and precautionary statements for the mixture in Section 2 were revised. The toxicology data in Sections 11 and 12 were revised.

Date of preparation / last revision 12/23/2015 / 1

Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent