

Methyl amyl ketone

SDS Preparation Date (mm/dd/yyyy): 11/15/2023

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# SAFETY DATA SHEET

# SECTION 1. IDENTIFICATION

Product identifier used on the label

: Methyl amyl ketone

Other means of identification: None assigned.

Recommended use of the chemical and restrictions on use

: Industrial solvent.

Use pattern: Professional use only Recommended restrictions: None known.

Chemical family : Pure substance

Name, address, and telephone number

of the supplier:

Name, address, and telephone number of

the manufacturer:

Refer to supplier

Comet Chemical Company Ltd. 3463 Thomas Street

Innisfill, ON, Canada L9S 3W4

Supplier's Telephone # : 705-436-5580

24 Hr. Emergency Tel #: GFL Environmental - 1-888-772-2543

### SECTION 2. HAZARDS IDENTIFICATION

#### Classification of the chemical

Clear colourless liquid. Disagreeable sweet odor.

Most important hazards: Flammable liquid and vapour. Harmful if swallowed. Inhalation may cause respiratory irritation and central nervous system depression.

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 Liquid - Category 3 Acute toxicity, oral - Category 4 Skin Irritation - Category 2

Eye irritation - Category 2B

Specific target organ toxicity, single exposure - Category 3 (respiratory) Specific target organ toxicity, single exposure - Category 3 (narcotic effects)

#### Label elements

Hazard pictogram(s)





Signal Word

DANGER!



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#### Hazard statement(s)

Flammable liquid and vapor.

Harmful if swallowed.

Causes skin irritation.

Causes eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

## Precautionary statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical and ventilating equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid breathing mist or vapours.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If skin irritation occurs: Get medical advice/attention.

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 INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

Rinse mouth.

In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

Store locked up.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local regulation.

#### Other hazards

Other hazards May be sensitive to static discharge. Take measures to prevent the build up of electrostatic charge.

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May form explosive peroxides. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Pure substance

| <u>Chemical name</u> | Common name and synonyms   | CAS#     | Concentration (% by weight) |
|----------------------|----------------------------|----------|-----------------------------|
| 2-Heptanone          | Methyl amyl ketone;<br>MAK | 110-43-0 | 100.00                      |

## SECTION 4. FIRST-AID MEASURES



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Ingestion : Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an

> unconscious person. Get medical attention if symptoms persist. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing Inhalation

> has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel

Skin contact Immediately flush with plenty of water, while removing contaminated

clothing.Immediately call a POISON CENTER or doctor/physician. Wash contaminated

clothing before reuse.

: For eye contact, flush with running water for at least 15 minutes. If eye irritation Eye contact

persists: get medical advice/attention.

## Most important symptoms and effects, both acute and delayed

: Harmful if swallowed. May cause respiratory irritation. May cause coughing and breathing difficulties. Symptoms may include redness, pain, tearing and conjunctivitis. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Causes skin irritation. Symptoms may include redness, itching and swelling. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

#### Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. This product is a CNS depressant.

# SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog

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

: Highly flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. May form explosive peroxides. Empty containers may contain hazardous residues.

## Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquids - Category 3

### **Hazardous combustion products**

: Carbon dioxide and carbon monoxide. Aldehydes.

## Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## Special fire-fighting procedures

: Move containers from fire area if safe to do so.Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.



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**Environmental precautions** 

Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

# Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. 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. Refer to Section 13 for disposal of contaminated material.

## Special spill response procedures

For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC). US CERCLA Reportable quantity (RQ): See section 15.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

: Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling. Use explosion-proof electrical and ventilating equipment.

#### **Conditions for safe storage**

Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues. After prolonged storage, may release explosive peroxides in the presence of air. Direct sunlight or heat may accelerate the release of peroxides.

#### Incompatible materials

: Halogens.; Acids; Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Exposure Limits: |            |             |                        |             |
|------------------|------------|-------------|------------------------|-------------|
| Chemical Name    | ACGIH TLV  |             | OSHA PEL               |             |
|                  | <u>TWA</u> | <u>STEL</u> | <u>PEL</u>             | <u>STEL</u> |
| 2-Heptanone      | 50 ppm     | N/Av        | 100 ppm ; 465<br>mg/m³ | N/Av        |

## **Exposure controls**

# Ventilation and engineering measures

: Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof electrical and ventilating equipment. In case of insufficient ventilation wear suitable respiratory equipment.

# Respiratory protection

If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.



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**Skin protection**: Wear protective gloves/clothing. Where extensive exposure to product is possible, use

resistant coveralls, apron and boots to prevent contact. The suitability for a specific

workplace should be discussed with the producers of the protective gloves.

**Eye / face protection**: Wear eye/face protection. Wear as appropriate: Tightly fitting safety goggles

**Other protective equipment**: Ensure that eyewash stations and safety showers are close to the workstation location.

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 or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid.
Colour : Colourless.

**Odour**: Disagreeable sweet odor.

Odour threshold : 0.2 ppm pH : None.

Melting Point/Freezing point : -36°C (-32.8°F)

Initial boiling point and boiling range

: 152°C (305.6°F )

Flash point : 39 °C (102.2°F)
Flashpoint (Method) : Cleveland closed cup

Evaporation rate (BuAe = 1) : 0.34

Flammability: Not applicable.

Lower explosion or flammability limit (% by vol.)

Not available.

Upper explosion or flammability limit (% by vol.)

: Not available.

Oxidizing properties : None known.

**Explosive properties**: May form explosive peroxides.

Vapour pressure : 2.8 mbar @ 20°C

Relative vapour density : 3.9 Relative density / Specific gravity

: 0.81

Solubility in water : Slightly soluble.

Other solubility(ies) : Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: 1.98

Auto-ignition temperature : 393°C (739.4°F)

Decomposition temperature : No exotherm to boiling

Viscosity : Not available.

Particle characteristics : Not applicable.

Volatiles (% by weight) : No data available.

Volatile organic Compounds (VOC's)

: No information available.

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.



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#### Other physical/chemical comments

: None known or reported by the manufacturer.

## SECTION 10. STABILITY AND REACTIVITY

Reactivity Not normally reactive.

: Stable under normal conditions. May form explosive peroxides. Chemical stability

Possibility of hazardous reactions

: Hazardous polymerization does not occur.

Conditions to avoid ; Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible

substances. Do not use in areas without adequate ventilation. Keep away from direct

sunlight.

Incompatible materials : Incompatible materials (see Section 7).

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Routes of entry inhalation : YES Routes of entry skin & eye : YES **Routes of entry Ingestion** : YES Routes of exposure skin absorption : YES

**Potential Health Effects:** 

## Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Sign and symptoms ingestion

: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Sign and symptoms skin : Causes skin irritation. Symptoms may include redness, itching and swelling.

Sign and symptoms eyes : Causes eye irritation. Symptoms may include redness, pain, tearing and conjunctivitis.

**Potential Chronic Health Effects** 

: Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects: May cause respiratory irritation. May cause drowsiness or dizziness.

Not classified as a specific target organ toxicity - repeated exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

: No information available. Synergistic materials



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Toxicological data : See below for toxicological data on the substance.

|               | LC50(4hr) | LDs         | 50               |
|---------------|-----------|-------------|------------------|
| Chemical name | inh, rat  | (Oral, rat) | (Rabbit, dermal) |
| 2-Heptanone   | >16 mg/L  | 1670 mg/kg  | 10,300 mg/kg     |

## Other important toxicological hazards

: None reported by the manufacturer.

# SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

: Do not allow material to contaminate ground water system. See the following tables for the substance's ecotoxicity data.

#### Ecotoxicity data:

| Ingradianta        | 040#     | Toxicity to Fish          |               |          |  |  |
|--------------------|----------|---------------------------|---------------|----------|--|--|
| <u>Ingredients</u> | CAS#     | LC50 / 96h                | NOEC / 21 day | M Factor |  |  |
| 2-Heptanone        | 110-43-0 | 131 mg/L (Fathead minnow) | n/av          | none     |  |  |

| <u>Ingredients</u> | CAS#     | Toxicity to Daphnia          |               |          |  |  | Toxicity to Daphnia |  |  |
|--------------------|----------|------------------------------|---------------|----------|--|--|---------------------|--|--|
|                    |          | EC50 / 48h                   | NOEC / 21 day | M Factor |  |  |                     |  |  |
| 2-Heptanone        | 110-43-0 | 90.1 mg/L (Daphnia<br>magna) | n/av          | none     |  |  |                     |  |  |

| <u>Ingredients</u> | CAS#     | Toxicity to Algae       |                   |          |  |  | Toxicity to Algae |  |  |
|--------------------|----------|-------------------------|-------------------|----------|--|--|-------------------|--|--|
|                    |          | EC50 / 96h or 72h       | NOEC / 96h or 72h | M Factor |  |  |                   |  |  |
| 2-Heptanone        | 110-43-0 | 75.5 mg/L (Green algea) | n/av              | none     |  |  |                   |  |  |

# Persistence and degradability

: Readily biodegradable

Bioaccumulation potential : No information available.

| <u>Components</u>          | Partition coefficient n-octanol/water (log Kow) | Bioconcentration factor (BCF) |
|----------------------------|-------------------------------------------------|-------------------------------|
| 2-Heptanone (CAS 110-43-0) | 1.98                                            | 7                             |

Mobility in soil : The product itself has not been tested.

Other Adverse Environmental effects

: None known.

# SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle in accordance with good industrial hygiene and safety practice. Refer to

protective measures listed in sections 7 and 8.

**Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local

regulations.



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**RCRA** 

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

# SECTION 14. TRANSPORT INFORMATION

| Regulatory<br>Information              | UN Number      | UN proper shipping name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Transport<br>hazard<br>class(es) | Packing<br>Group | Label            |  |
|----------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------|------------------|--|
| TDG                                    | UN1110         | n-AMYL METHYL KETONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                                | III              | 3                |  |
| TDG<br>Additional<br>information       |                | d as a Limited Quantity when transported in containers no<br>30 kg gross mass.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | o larger than 5.0                | L, in combir     | nation packaging |  |
| 49CFR/DOT                              | UN1110         | n-AMYL METHYL KETONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                                | III              | 3                |  |
| 49CFR/DOT<br>Additional<br>information | May be shipped | d as a Limited Quantity, refer to section 173.150.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | !                                |                  | •                |  |
| ICAO/IATA                              | UN1110         | n-Amyl methyl ketone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                                | III              | 3                |  |
| ICAO/IATA<br>Additional<br>nformation  | Refer to ICAO/ | IATA Packing Instruction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | !                                |                  | •                |  |
| IMDG                                   | UN1110         | n-AMYL METHYL KETONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                                | III              | 3                |  |
| IMDG<br>Additional<br>nformation       | Maybe shipped  | las a Limited Quantity, consult the IMDG regulations for the last of the last | details.                         |                  | •                |  |

Special precautions for user: Appropriate advice on safety must accompany the package. Keep away from heat,

sparks and open flame - No smoking.

**Environmental hazards** 

: This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

# SECTION 15 - REGULATORY INFORMATION

# **US Federal Information:**

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

| <u>Ingredients</u> | TSCA R          |                                   | CERCLA<br>Reportable                   | SARA TITLE III:<br>Sec. 302,<br>Extremely | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical |    |  |
|--------------------|-----------------|-----------------------------------|----------------------------------------|-------------------------------------------|---------------------------------------------------------------|----|--|
|                    | CAS # Inventory | Quantity(RQ) (40<br>CFR 117.302): | Hazardous<br>Substance, 40<br>CFR 355: | Toxic Chemical                            | de Minimis<br>Concentration                                   |    |  |
| 2-Heptanone        | 110-43-0        | Yes                               | N/Ap                                   | N/Av                                      | No                                                            | No |  |



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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable liquid; Skin irritation; Eye irritation; Specific target organ toxicity, single exposure

### **US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

| <u>Ingredients</u> | CAS#     | California Proposition 65 |                  | State "Right to Know" Lists |     |     |     |     |     |
|--------------------|----------|---------------------------|------------------|-----------------------------|-----|-----|-----|-----|-----|
|                    |          | Listed                    | Type of Toxicity | CA                          | MA  | MN  | NJ  | PA  | RI  |
| 2-Heptanone        | 110-43-0 | No                        | N/Ap             | Yes                         | Yes | Yes | Yes | Yes | Yes |

#### **Canadian Information:**

All ingredients are present on the DSL.

### **International Information:**

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

| <u>Ingredients</u> | CAS#     | European<br>EINECs | Australia<br>AICS | Philippines<br>PICCS | Japan ENCS | Korea<br>KECI/KECL | China<br>IECSC | NewZealand<br>IOC |
|--------------------|----------|--------------------|-------------------|----------------------|------------|--------------------|----------------|-------------------|
| 2-Heptanone        | 110-43-0 | 203-767-1          | Present           | Present              | Not listed | Not listed         | Present        | Not listed        |

#### **SECTION 16. OTHER INFORMATION**

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

ATE: Acute Toxicity Estimate CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980

CFR: Code of Federal Regulations CSA: Canadian Standards Association DOT: Department of Transportation ECHA: European Chemicals Agency

ECOTOX: U.S. EPA Ecotoxicology Database

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS: Existing and New Chemical Substances EPA: Environmental Protection Agency HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IBC: Intermediate Bulk Container

IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods

IOC: Inventory of Chemicals

IUCLID: International Uniform Chemical Information Database

KECI: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List

LC: Lethal Concentration LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NOEC: No observable effect concentration



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NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

PICCS: Philippine Inventory of Chemicals and Chemical Substances

RCRA: Resource Conservation and Recovery Act RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet / Material Safety Data Sheet

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values

TSCA: Toxic Substance Control Act 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
  - 2. ECHA European Chemical Agency
  - 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
  - 4. Safety Data Sheets from manufacturer.
  - 5. US EPA Title III List of Lists6. California Proposition 65 List
  - 7. OECD The Global Portal to Information on Chemical Substances eChemPortal

Preparation Date (mm/dd/yyyy)

: 11/15/2023

#### Other special considerations for handling

: Provide adequate information, instruction and training for operators.

### Prepared for:

Comet Chemical Company Ltd. 3463 Thomas Street Innisfill, ON L9S 3W4

Information (M-F 8:00-5:00): 705-436-5580

www.cometchemical.com

# COMET CHEMICAL COMPANY LTD.

# Prepared by:

ICC The Compliance Center Inc.

Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)

http://www.thecompliancecenter.com



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