1 Identification

Product identifier

Product name: Methyl Yellow

Stock number: B21145

CAS Number: 60-11-7

EC number: 200-455-7

Relevant identified uses of the substance or mixture and uses advised against.

Identified use: SU24  Scientific research and development

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Alfa Aesar
Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street
Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757
Email: tech@alfa.com
www.alfa.com

Information Department: Health, Safety and Environmental Department

Emergency telephone number:

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2 Hazard(s) identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

- GHS06 Skull and crossbones
  Acute Tox. 3 H301 Toxic if swallowed.

- GHS08 Health hazard
  Carc. 2 H351 Suspected of causing cancer.

Hazards not otherwise classified No information known.

Label elements

GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

Hazard pictograms

- GHS06 GHS08

Signal word Danger

Hazard statements

H301 Toxic if swallowed.
H351 Suspected of causing cancer.

Precautionary statements

P281 Use personal protective equipment as required.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/…
P308+P313 IF exposed or concerned: Get medical advice/attention.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS classification

D1A - Very toxic material causing immediate and serious toxic effects
D2A - Very toxic material causing other toxic effects

Classification system

HMIS ratings (scale 0-4) (Hazardous Materials Identification System)

Health (acute effects) = 2
Flammability = 1
Physical Hazard = 1

3 Composition/information on ingredients

Chemical characterization: Substances

CAS# Description: 60-11-7 Methyl Yellow

Identification number(s):

EC number: 200-455-7

4 First-aid measures

Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.
Product name: Methyl Yellow

(Contd. of page 1)

5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
Hydrogen cyanide (HCN)

Advice for firefighters

Protective equipment:
Wear self-contained respirator.
Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.

Environmental precautions: Do not allow material to be released to the environment without proper governmental permits.

Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13.

Prevention of secondary hazards: No special measures required.

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
Keep container tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation at the workplace.

Information about protection against explosions and fires: No information known.

Conditions for safe storage, including any incompatibilities

Storage
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Store away from oxidizing agents.

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

8 Exposure controls/personal protection

Additional information about design of technical systems:
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace:

60-11-7 Methyl Yellow (100.0%)
PEL (USA) see 29 CFR 1910.1003
REL (USA) See Pocket Guide App. A

Additional Information: No data

Exposure controls

Personal protective equipment

General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all soiled and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Maintain an ergonomically appropriate working environment.

Breathing equipment: Use suitable respirator when high concentrations are present.

Protection of hands:
Impervious gloves
Check protective gloves prior to each use for their proper condition.
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.

Eye protection: Safety glasses

Body protection: Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:
Form: Powder
Color: Orange
Odor: Odorless
Odor threshold: Not determined.
**Product name:** Methyl Yellow

### 10 Stability and reactivity

**Reactivity**
- No information known.

**Chemical stability**
- Stable under recommended storage conditions.

**Thermal decomposition / conditions to be avoided**
- Decomposition will not occur if used and stored according to specifications.

**Possibility of hazardous reactions**
- No dangerous reactions known

**Conditions to avoid**
- No further relevant information available.

**Incompatible materials**
- Oxidizing agents

**Hazardous decomposition products**
- Carbon monoxide and carbon dioxide
- Nitrogen oxides
- Hydrogen cyanide

### 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**
- Toxic if swallowed.

**LD/LC50 values that are relevant for classification:**
- No data

**Skin irritation or corrosion:**
- May cause irritation

**Eye irritation or corrosion:**
- May cause irritation

**Sensitization:**
- No sensitizing effects known.

**Germ cell mutagenicity:**
- No effects known.

**Carcinogenicity:**
- Suspected of causing cancer.
- IARC-2B: Possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals.
- NTP-R: Reasonably anticipated to be a carcinogen: limited evidence from studies in humans or sufficient evidence from studies in experimental animals.
- Carcinogen as defined by OSHA.

**Reproductive toxicity:**
- No effects known.

**Specific target organ system toxicity - repeated exposure:**
- No effects known.

**Specific target organ system toxicity - single exposure:**
- No effects known.

**Aspiration hazard:**
- No effects known.

**Other information (about experimental toxicology):**
- Tumorigenic effects have been observed on tests with laboratory animals.
- Reproductive effects have been observed on tests with laboratory animals.
- Mutagenic effects have been observed on tests with laboratory animals.

**Subacute to chronic toxicity:**
- The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals:
  - Lungs, Thorax, or Respiration - dyspnea.
  - Lungs, Thorax, or Respiration - cyanosis.
  - Lungs, Thorax, or Respiration - tumors.
  - Lungs, Thorax, or Respiration - consolidation.
  - Liver - other changes.
  - Liver - tumors.
  - Liver - change in gall bladder structure or function.
  - Blood - other hemolysis with or without anemia.
  - Kidney, Ureter, Bladder - tumors.
  - Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - cytochrome oxidase (including oxidative phosphorylation).
  - Biochemical - Enzyme inhibition, induction, or change in blood or tissue levels - multiple enzyme effects.
  - Reproductive - Tumorigenic effects - transplacental tumorgenesis.
  - Reproductive - Paternal Effects - spermatogenesis (including genetic material, sperm morphology, motility, and count).
  - Reproductive - Specific Developmental Abnormalities - musculoskeletal system.
  - Tumorigenic - carcinogenic by RTECS criteria.
  - Tumorigenic - tumors at site of application.
  - Tumorigenic - equivocal tumorigenic agent by RTECS criteria.
  - Tumorigenic - neoplastic by RTECS criteria.

**Additional toxicological information:**
- To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

### 12 Ecological information

**Toxicity**
- No further relevant information available.

**Persistence and degradability**
- No further relevant information available.

**Bioaccumulative potential**
- No further relevant information available.

**Mobility in soil**
- No further relevant information available.
Additional ecological information:

General notes:
Do not allow product to reach ground water, water course or sewage system.
Do not allow material to be released to the environment without proper governmental permits.
Danger to drinking water if even small quantities leak into the ground.
Avoid transfer into the environment.

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: Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number
DOT, IMDG, IATA: UN2811

UN proper shipping name
DOT: Toxic solids, organic, n.o.s. (Methyl Yellow)
IMDG, IATA: TOXIC SOLID, ORGANIC, N.O.S. (Methyl Yellow)

Transport hazard class(es)

**DOT**

<table>
<thead>
<tr>
<th>Class</th>
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<td>6.1</td>
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<td>Toxic substances.</td>
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**IMDG, IATA**

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<td>Toxic substances</td>
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Packing group
DOT, IMDG, IATA: III

Environmental hazards:
Not applicable.

Special precautions for user
Warning: Toxic substances

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

Transport/Additional information:

**DOT**

Marine Pollutant (DOT): No

**UN "Model Regulation"**:
UN2811, Toxic solids, organic, n.o.s. (Methyl Yellow), 6.1, III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

GHS label elements: The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)

Hazard pictograms

GHS06 GHS08

Signal word: Danger

Hazard statements
H301 Toxic if swallowed.
H351 Suspected of causing cancer.

Precautionary statements
P261 Use personal protective equipment as required.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/…
P308+P313 IF exposed or concerned: Get medical advice/attention.
P331 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL).

**SARA Section 313 (specific toxic chemical listings)**
60-11-7 Methyl Yellow
California Proposition 65

**Prop 65 - Chemicals known to cause cancer**
60-11-7 Methyl Yellow

**Prop 65 - Developmental toxicity** Substance is not listed.
**Prop 65 - Developmental toxicity, female** Substance is not listed.
**Prop 65 - Developmental toxicity, male** Substance is not listed.

Information about limitation of use:
For use only by technically qualified individuals.
Other regulations, limitations and prohibitive regulations

Although this chemical may sometimes be used as a food or drug or cosmetic, our products are not approved or suitable for such use or for human consumption. Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

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

16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department

Date of preparation / last revision 11/23/2015 / -

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)
IATA-DGR: Dangerous Goods Regulations by the “International Air Transport Association” (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical instructions by the “International Civil Aviation Organization” (ICAO)
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
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
IARC: International Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)