

SAFETY DATA SHEET

Methyl Bromide Industrial



Version	Revision Date:	SDS Number:	Date of last issue: 09/04/2018
1.8	08/21/2019	000000008137	Date of first issue: 05/14/2015

SECTION 1. IDENTIFICATION

Product name: Methyl Bromide Industrial

Product Use Description: Chemical intermediate

Synonyms: methyl bromide

Company: LANXESS Solutions US Inc.
2 Armstrong Road
Shelton, CT
06484
United States of America (USA)
Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC
(24 hours) 800-424-9300

US : 800-292-5898 (Technical inquiries)
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department
(US) +1 866-430-2775

MSDSRequest@lanxess.com

Recommended use of the chemical and restrictions on use

Recommended use : Chemical intermediate

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable gases	: Category 1
Acute toxicity (Oral)	: Category 3
Acute toxicity (Inhalation)	: Category 3
Skin irritation	: Category 2
Eye irritation	: Category 2A
Germ cell mutagenicity	: Category 2
Specific target organ toxicity - single exposure	: Category 3 (Respiratory system)
Specific target organ toxicity - repeated exposure	: Category 2

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Short-term (acute) aquatic hazard : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H220 Extremely flammable gas.
H301 + H331 Toxic if swallowed or if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P281 Use personal protective equipment as required.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

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P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 Eliminate all ignition sources if safe to do so.

P391 Collect spillage.

Storage:

P403 Store in a well-ventilated place.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Pure substance

Substance name : methyl bromide

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
bromomethane	74-83-9	>= 90 - <= 100

SECTION 4. FIRST AID MEASURES

If inhaled : Get medical attention immediately.
Remove to fresh air.
Keep patient warm and at rest.
Keep respiratory tract clear.
Give oxygen or artificial respiration if needed.
Gently wipe or rinse the inside of the mouth with water.

In case of skin contact : Get medical attention immediately.
Take off contaminated clothing and shoes immediately.
Wash off with soap and water.

In case of eye contact : Get medical attention immediately.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If swallowed : Get medical attention immediately.
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : Symptoms may be delayed.
Dizziness
Blurred vision
Weakness

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Staggering gait
Slurred speech
Nausea
Vomiting
Loss of appetite
Effects of breathing high concentrations of vapour may include:
Convulsions
Lung oedema
Lack of coordination
Fatigue
corrosive effects

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during fire-fighting : Container may explode if heated.
Burning produces noxious and toxic fumes.
Thermal decomposition can lead to release of irritating gases and vapours.

Further information : Use a water spray to cool fully closed containers.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Ensure adequate ventilation.
Use personal protective equipment.
Evacuate immediate area of spill or leak. Use a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator for entry into affected area to correct problem. Move leaking or damaged cylinders or containers outdoors or to an isolated location, observing strict safety precautions. Work upwind if possible. Allow spill to evaporate. Do not permit entry into spill area by persons without appropriate respiratory protection until concentration of methyl bromide is determined to be less than 5 ppm.
Do not contaminate water, food or feed by storage or disposal

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or cleaning of equipment.

Environmental precautions : Toxic to aquatic life.
 Do not allow contact with soil, surface or ground water.
 Do not flush into surface water or sanitary sewer system.
 Do not use product nearer than 10 m from streams and lakes.

Methods and materials for containment and cleaning up : Allow to evaporate.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.
 Avoid contact with skin, eyes and clothing.
 Use personal protective equipment as required.
 Do not breathe vapours or spray mist.
 Handle with extreme care.
 Wear respiratory protection.

Conditions for safe storage : Keep container tightly closed.
 Keep in a dry, cool and well-ventilated place.
 Store in upright position only.
 Store locked up.

Further information on storage stability : Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
bromomethane	74-83-9	TWA	1 ppm	ACGIH
		C	20 ppm 80 mg/m ³	OSHA Z-1
		TWA	5 ppm 20 mg/m ³	OSHA P0
bromomethane	74-83-9	TWA	1 ppm	ACGIH
		C	20 ppm 80 mg/m ³	OSHA Z-1
		TWA	5 ppm 20 mg/m ³	OSHA P0

Engineering measures : Use local ventilation to keep levels below established threshold values.
 Adequate general ventilation is recommended when handling to control airborne levels.
 Do not use in areas without adequate ventilation.
 Use mechanical ventilation for general area control.

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Personal protective equipment

- Respiratory protection : If the concentration of methyl bromide as measured by detector tube exceeds 5 ppm at any time, all persons must wear NIOSH/MSHA approved SCBA.
A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
- Eye protection : Safety glasses with side-shields
or
Face-shield
- Skin and body protection : Complete suit protecting against chemicals
- Hygiene measures : Use the appropriate detector tubes and pumps for determining methyl bromide air concentrations.
Make sure piping is empty before doing maintenance work.
-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : gas
- Colour : colourless
- Odour : odourless
- Odour Threshold : No data available
- pH : Not applicable
- Melting point/range : Not applicable
- Boiling point/boiling range : 38.5 °F / 3.6 °C
- Flash point : Not applicable
- Evaporation rate : Not applicable
- Upper explosion limit / Upper flammability limit : ca. 15 %(V)
- Lower explosion limit / Lower flammability limit : ca. 10 %(V)
- Vapour pressure : 1,866.5 hPa (68 °F / 20 °C)
3,466.4 hPa (104 °F / 40 °C)
- Relative vapour density : ca. 3.27
- Relative density : 1.7 (32 °F / 0 °C)
- Density : 14.45 lb/gal

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Solubility(ies)
Water solubility : 17.5 g/l (68 °F / 20 °C)
No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Self-Accelerating decomposition temperature (SADT) : Method: No information available.

Viscosity
Viscosity, kinematic : No data available
Not applicable

Oxidizing potential : No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Stable under recommended storage conditions.

Chemical stability : No decomposition if stored and applied as directed.
No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.
No hazards to be specially mentioned.

Conditions to avoid : None known.
No data available

Incompatible materials : Aluminium
Zinc
Alkali metals
Strong bases

Hazardous decomposition products : Bromine
Carbon dioxide (CO₂)
Carbon monoxide
Hydrogen halides

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SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation
Ingestion
Skin contact

Acute toxicity**Product:**

Acute oral toxicity : LD50 (Rat): 214 mg/kg
Remarks: Toxic if swallowed.

Acute inhalation toxicity : Acute toxicity estimate: 700 ppm
Exposure time: 4 h
Test atmosphere: gas
Method: Calculation method

Components:**bromomethane:**

Acute oral toxicity : LD50 Oral (Rat): 214 mg/kg

Skin corrosion/irritation**Product:**

Result : Irritating to skin.

Serious eye damage/eye irritation**Product:**

Result : Irritating to eyes.

Respiratory or skin sensitisation**Product:**

Remarks : No data available

Carcinogenicity

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

STOT - single exposure**Product:**

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Assessment : May cause respiratory irritation.

STOT - repeated exposure**Product:**

Assessment : May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity**Product:**

No aspiration toxicity classification

Further information**Product:**

Remarks : Methyl bromide is a poison and can cause respiratory distress, cardiac arrest and central nervous system effects. Overexposure may cause neurotoxic effects from which recovery may be slow.

Methyl bromide demonstrates genotoxicity in several test systems at levels above the TLV.

In a two year inhalation cancer bioassay with rats at 3, 30 and 90 ppm no tumors were observed.

In a two generation inhalation reproduction study with rats at 3, 30 and 90 ppm the no observed effect level was 3 ppm. At the higher doses organ weight variation was observed in some offspring.

In a 24 month chronic dietary study in rats, a no observable effect level (NOEL) for systemic toxicity of microencapsulated methyl bromide was considered to be 50 ppm (equivalent to 2.20 mg/kg/day for males and 2.92 mg/kg/day for females). The low observable effect level (LOEL) was considered to be 250 ppm (equivalent to 11.10 mg/kg/day for males and 15.12 mg/kg/day for females) based on reduced food consumption, body weight gains and body weights noted during the first 12 to 18 months of the study. Methyl bromide was not oncogenic upon dietary administration for two years.

In a two year inhalation study in B6C3F1 mice, exposed to levels of 0, 10, 33 or 100 ppm for 6 hours per day, 5 days per week, degenerative changes in the cerebellum and cerebrum, myocardial degeneration and cardiomyopathy, sternal dysplasia, and olfactory epithelial necrosis and metaplasia were observed. There was no evidence of carcinogenic activity.

In an EPA/NIH sponsored epidemiology study entitled Agricultural Health Study, pesticides were evaluated based on cancer related deaths and questionnaire results provided by

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farmers, nursery workers and commercial pesticide applicators in Iowa and North Carolina. Results associated methyl bromide with an increase in prostate cancer risk in pesticide applicators. Exposures to methyl bromide were not confirmed. Incidence and intensity estimations were based solely on self-reporting via a questionnaire. Although the interpretation of the data collected in the study led to a statistically significant increase in prostate cancer risk for methyl bromide applicators, the authors could not rule out the possibility that the observations may have occurred by chance alone and findings need to be confirmed.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : Remarks: Very toxic to aquatic organisms.

Persistence and degradability**Product:**

Biodegradability : Remarks: No data available

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

Components:**bromomethane:**

Ozone-Depletion Potential : 0.7
Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances (Update: 2007-07-01)
Group: Group VI
0.6

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Regulation: UNEP - Handbook for the Montreal Protocol on Substances that Deplete the Ozone Layer (Update: 2009-10-01)

Group: Annex E - Group I: Methyl bromide

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Improper disposal of excess product, spray mixture or rinsate is a violation of Federal Law.
If these wastes cannot be disposed of by use according to label instructions, contact your Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. For registered pesticides, contact your State Pesticide Agency.
Return empty cylinders freight collect to the Great Lakes Solutions location from which shipment was made. Close cylinder valve by turning clockwise until hand tight. Disconnect lines. Replace safety caps and bonnet. Return partial cylinders only after consulting Great Lakes Solutions for proper shipping instructions.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IMDG-Code**

UN number : UN 1062
Proper shipping name : METHYL BROMIDE

Class : 2.3
Packing group : Not assigned by regulation
Labels : 2.3
EmS Code : F-C, S-U
Marine pollutant : yes

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

Not applicable for product as supplied.

National Regulations**49 CFR**

UN/ID/NA number : UN 1062
Proper shipping name : Methyl bromide

Class : 2.3
Packing group : Not assigned by regulation
Labels : POISON GAS
ERG Code : 123
Marine pollutant : yes
Remarks : Poison Inhalation Hazard - Zone C

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Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
bromomethane	74-83-9	1000	1000

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
bromomethane	74-83-9	1000	1000

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
bromomethane	74-83-9	1000

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Germ cell mutagenicity
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

bromomethane 74-83-9 100 %

California Prop. 65

WARNING: This product can expose you to chemicals including bromomethane, chloromethane, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

bromomethane 74-83-9

California Permissible Exposure Limits for Chemical Contaminants

bromomethane 74-83-9

California List of Acutely Hazardous Chemicals, Toxics and Reactives

bromomethane 74-83-9

International Regulations

Montreal Protocol (Ozone Depleting Substances) : bromomethane

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Please note that Section 3 of this document lists only the hazardous components required by the specific country or region hazard communication regulations. The chemical identifiers listed in Section 3 are used globally for hazard communication purposes and may not reflect those used for chemical inventory coverage in a particular country or region. The chemical inventory information given in Section 15 of this document applies to the product as a whole and should be used when evaluating inventory compliance.

The components of this product are reported in the following inventories:

DSL	:	All components of this product are on the Canadian DSL
AICS	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
US.TSCA	:	On TSCA Inventory

SECTION 16. OTHER INFORMATION**Further information****Other Emergency Phone Number**

<u>Latin America:</u>	Brazil	+55 11 3197 5891
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 55 5004 8763

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / C	:	Ceiling

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of

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the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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.

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