SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Notification No. 2023-9 of the Ministry of Employment and Labour Standards for
Classification, Labelling of Chemical Substances and Material Safety Data Sheets

Issuing Date 17-Dec-2020 **Revision date** 07-Jan-2026 **Revision Number** 11.4

1. Identification

A Product identifier

Product Name Methanol

Synonyms Methyl alcohol, wood alcohol, methyl hydroxide

CAS No. 67-56-1

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

Recommended use
Industrial use
Professional use
Consumer use
Solvent
Fuels
Raw material
Cleaning agent
Laboratory reagent
Consumer use of cleaning agents and de-icers

Restrictions on use None

C Supplier's details

Manufacturer
Methanex Korea Co., Ltd
6th floor, Gangnam Finance Center
152 Teheran-ro
Gangnam-gu, Seoul
(02)598-2051

For further information, please contact

Emergency telephone number
NCEC Emergency Toll-Number: (+82) 2-3479-8401
119 Fire and Disaster Prevention Administration and local fire department

2. Hazard(s) identification

A Classification of the substance or mixture

Flammable liquids	Category 2
Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 1
Category 3 Target organ effects: Respiratory irritation.	
Specific target organ toxicity (repeated exposure)	Category 1

B GHS Label elements, including precautionary statements

Hazard symbols

Signal word Danger

Hazard statements
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H319 - Causes serious eye irritation
H351 - Suspected of causing cancer
H360 - May damage fertility or the unborn child
H370 - Causes damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure
H225 - Highly flammable liquid and vapor

Precautionary Statements - Prevention
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves, protective clothing, eye protection and face protection
P264 - Wash face, hands and any exposed 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
P260 - Do not breathe dust
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment
P240 - Ground and bond container and receiving equipment
P242 - Use non-sparking tools
P243 - Take action to prevent static discharges
P235 - Keep cool

Precautionary Statements - Response
P321 - Specific treatment (see supplemental first aid instructions on this label)
P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse
P312 - Call a POISON CENTER or doctor if you feel unwell

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P311 - Call a POISON CENTER or doctor

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P330 - Rinse mouth

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Precautionary Statements - Storage
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up

Precautionary Statements - Disposal
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

C Other hazards which do not result in classification
Poison. Risk of blindness after swallowing the product. May be harmful if swallowed.

3. Composition/information on ingredients

Substance

Synonyms Methyl alcohol, wood alcohol, methyl hydroxide

Chemical name	Common name and synonyms	CAS No.	Weight-%	Korean Existing Chemicals Inventory	Approval number	Expiration date
Methanol	Methyl alcohol	67-56-1	100	KE-23193	-	-

4. First-aid measures

A In case of eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

B In case of skin contact
IF ON SKIN: Wash with plenty of soap and water. Remove and isolate contaminated clothing and shoes. Wash contaminated clothing before reuse. Immediate medical attention is required.

C In case of inhalation
Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Immediate medical attention is required. If breathing has stopped, give artificial respiration. Get medical attention immediately.

D In case of ingestion
Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

E Indication of immediate medical attention and special treatment needed, if necessary

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.

Note to physicians Poison. May be fatal if swallowed. The severity of outcome following methanol ingestion may be more related to the time between ingestion and treatment, rather than the amount ingested; therefore, there is a need for rapid treatment of any ingestion exposure. Call a Poison Center. Antidote: Fomepizole enhances elimination of metabolic formic acid. Antidote should be administered by qualified medical personnel.

Symptoms	Ingestion causes nausea, weakness and central nervous system effects, headache, vomiting, dizziness, symptoms of drunkenness. Coma and death due to respiratory failure may follow severe exposures: Medical treatment necessary. A latent period of several hours may occur between exposure and the onset of symptoms. May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.
Effects of Exposure	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility. Suspected of causing cancer.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapor or mist.

5. Fire-fighting measures

A Suitable (and unsuitable) extinguishing media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. Use water spray to cool fire-exposed containers. Water will not cool methanol below its flash point.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

B Specific hazards arising from the chemical

Vapors are heavier than air and may spread along floors. Mixtures >20% methanol with water: flammable. Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire-fighting to enter drains or water courses. Sealed containers may rupture when heated. May burn with an almost invisible flame in bright light.

Hazardous combustion products Toxic gases or vapors, Carbon monoxide, Carbon dioxide (CO2), Formaldehyde.

C Special Protective Equipment for Firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

6. Accidental release measures

A Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Do not breathe vapor or mist. Wash thoroughly after handling.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

B Environmental precautions

Avoid release to the environment. Dispose of contents/containers in accordance with local regulations. Biodegradable at low concentrations. Soluble in water. When released, this product is expected to evaporate. Contact authorities in the event of pollution of soil and aquatic environment or discharge into drains. Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

C. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

A Precautions for safe handling

Advice on safe handling Use personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Do not breathe vapor or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation.

B Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Keep out of the reach of children. Store locked up.

General hygiene considerations Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Do not breathe vapor or mist.

8. Exposure controls/personal protection

A Control Parameters

Occupational exposure limits

Chemical name	OEL	PEL	ACGIH TLV
Methanol	TWA: 200 ppm; STEL: 250 ppm; Sk	TWA: 200 ppm; STEL: 250 ppm	TWA: 200 ppm STEL: 250 ppm pSk

Biological occupational exposure limits

Chemical name	ACGIH
Methanol 67-56-1	15 mg/L - urine (Methanol) - end of shift

B Appropriate engineering controls

Engineering controls	Provide local exhaust ventilation. Handle product only in closed system or provide appropriate exhaust ventilation. Ensure that eyewash stations and safety showers are close to the workstation location. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.
Environmental exposure controls	No information available.

C Personal protective equipment

Respiratory protection	Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode. Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Eye protection	Tight sealing safety goggles. Face protection shield.
Hand protection	Wear suitable gloves. Impervious gloves. Nitrile rubber. Neoprene gloves. Butyl rubber.
Body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

9. Physical and chemical properties

Information on basic physical and chemical properties

A. Appearance	Clear liquid
Physical State	Liquid
Color	Clear
B. Odor	Alcohol
C. Odor threshold	4.2 -5960 ppm

Property	Values	Remarks • Method
D pH		No data available
E Melting point / freezing point	-97.8 °C / -144 °F	
F Initial boiling point and boiling range	64.7 °C / 148.5 °F	
G Flash point	11 °C / 51.8 °F	
H Evaporation rate	4.1	Butyl acetate = 1
I Flammability		No data available
J Upper/lower flammability or explosive limits		
Upper flammability or explosive limits	36.5%	
Lower flammability or explosive limits	5.5%	
K Vapor pressure	12.8 kPa	@ 20 °C
L Solubility(ies)		
Water solubility	Miscible in water	
Solubility in other solvents		No data available
M Relative vapor density	1.1	@ 20 °C (air = 1)
N Specific Gravity	0.791 - 0.793	@20°C
Bulk density		No data available
Liquid Density		No data available
O Partition coefficient: n-octanol/water	-0.77	log Pow
P Autoignition Point	464 °C / 867.2 °F	
Q Decomposition temperature		No data available

SADT (°C)		No data available
R Viscosity		
Kinematic viscosity		No data available
Dynamic viscosity	0.8 cP	@ 20 °C
S Molecular weight	32.04	

Other information

VOC content	100%
Softening point	No information available

Information with regard to physical hazard classes

Explosive properties	Vapors may form explosive mixtures with air
Oxidizing properties	None known

10. Stability and reactivity

A Chemical stability and possibility of hazardous reactions

Stability	Stable under normal conditions. May form flammable/explosive vapor-air mixture.
Possibility of hazardous reactions	Heating causes rise in pressure with risk of bursting.
Hazardous polymerization	Hazardous polymerization does not occur.

Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.

B Conditions to avoid

Heat, flames and sparks. Excessive heat. Protect from direct sunlight. Containers may rupture or explode if exposed to heat.

C Incompatible materials

Lead, Aluminum, Zinc, Oxidizing agent, Strong acids, Strong bases, Polyethylene, Polyvinyl chloride (PVC), Nitriles.

D Hazardous decomposition products

Carbon monoxide, Carbon dioxide (CO2), May release flammable gases, Formaldehyde.

11. Toxicological information

A Information on the likely routes of exposure

Product Information

Inhalation	Toxic by inhalation. Vapors may be irritating. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.
Ingestion	Poison. Toxic if swallowed. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. May be fatal if swallowed.
Eye contact	Causes serious eye irritation. May cause redness, itching, and pain.
Skin contact	Toxic in contact with skin. May cause irritation. Prolonged contact may cause redness and irritation.
Symptoms	Ingestion causes nausea, weakness and central nervous system effects, headache, vomiting, dizziness, symptoms of drunkenness. Coma and death due to respiratory failure may follow severe exposures: Medical treatment necessary. A latent period of several hours may occur between exposure and the onset of symptoms. May cause redness and tearing of the eyes. Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

B Health hazards information

Acute toxicity Toxic by inhalation, in contact with skin and if swallowed.

Numerical measures of toxicity The acute toxicity of methanol varies greatly species to species and has been well documented. Methanol's toxicity is driven by its metabolism and the creation of toxic metabolites. Metabolism within animal species utilized for acute toxicity testing is not an accurate representation of human metabolism. Therefore, positive human evidence outweighs rat and rabbit toxicity values. Animal toxicity values are reported below, but are not appropriate for human health hazard classification
Acute Toxicity Estimate (ATE) values provided as a reflection of the hazard classification

ATEmix (oral)	100 mg/kg
ATEmix (dermal)	300 mg/kg
ATEmix (inhalation-vapor)	3 mg/L

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Methanol	= 6200 mg/kg (Rat)	= 15840 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h = 64000 ppm (Rat) 4 h

Skin corrosion/irritation Non-irritant. No classification is proposed, based on conclusive negative data. Erythema index = 0. Edema index = 0.

Serious eye damage/irritation Causes serious eye irritation. OECD TG 405. Not recovered within 72 hours, but no irritation seen in 8-14 days. Non-irritating conjunctival index = 2.06/3. Conjunctival edema index = 0.72/4. Iris index = 0.61/2. Corneal index = 0.56/4.

Respiratory or skin sensitization OECD Test No. 406: Skin Sensitization: No sensitization responses were observed.

Germ cell mutagenicity OECD Test No. 471: Bacterial Reverse Mutation Test: Not classified.

Carcinogenicity Suspected of causing cancer. EU CLP: Category 2 (Applies to CLP according to Article 5 of Notification 2018-24).

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ toxicity (STOT) - single exposure May cause damage to organs.

Specific target organ toxicity (STOT) - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Target organ effects Eyes: Optic nerve. Central nervous system.

Aspiration hazard No information available.

12. Ecological information

A. Ecotoxicity
Avoid release to the environment.

Component Information

Chemical name	Fish	Crustacea	Algae/aquatic plants	Toxicity to microorganisms
Methanol	LC50: =28200mg/L	-	-	-

	(96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas) LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss) LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss) LC50: 13500 - 17600mg/L (96h, Lepomis macrochirus)			

Component Information

Chemical name	Earthworm	Avian	Honeybees
Methanol	Acute Toxicity: LC50 > 1 mg/cm2 (Eisenia foetida, 48 h filter paper)	-	-

B. Persistence and degradability
Readily biodegradable.

C. Bioaccumulative potential
BCF: <10

Chemical name	Partition coefficient	Bioconcentration factor (BCF)	Trophic magnification factor (TMF)
Methanol	-0.77	10	-

D. Mobility in soil
No information available.

E. Other adverse effects
No information available.

13. Disposal considerations

A Disposal methods

Waste from residues/unused products Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Dispose in accordance with Waste Control Act.

B Disposal considerations

Contaminated packaging Recover or recycle if possible. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. Transport information

A UN number or ID number UN1230

B UN proper shipping name METHANOL

C Transport hazard class(es) 3

Subsidiary hazard class 6.1

D Packing group II

E Marine pollutant No

Special Provisions 279
Description UN1230, METHANOL, 3 (6.1), II, (11°C C.C.)

F Special precautions for user Not regulated

15. Regulatory information

A. Industrial Safety and Health Law

Prohibited substance Not applicable

Substances Requiring Permission Not applicable

Harmful substances subject to control

Chemical name	Harmful substances subject to control
Methanol	Applicable

Harmful agents subject to work environment monitoring

Chemical name	Organic compounds	Metals	Acids and alkalis	Gas-phase substances	Dusts
Methanol	Measurement cycle: 6 months	Not applicable	Not applicable	Not applicable	Not applicable

Harmful agents subject to workers requiring health examination Not applicable

Chemical name	Organic compounds	Metals	Acids and alkalis	Gas-phase substances	Dusts
Methanol	Diagnostic cycle: 12 months	Not applicable	Not applicable	Not applicable	Not applicable

Harmful or dangerous substances subject to submission of process safety reports Flammable liquid.

Chemical name	Harmful or dangerous substances subject to submission of process safety reports
Methanol	Applicable

Control parameters

Chemical name	OEL	PEL
Methanol	TWA: 200 ppm; STEL: 250 ppm; Sk	TWA: 200 ppm; STEL: 250 ppm

B. Chemicals Control Act

Hazardous chemical substances Not applicable

Chemical name	Substances acutely hazardous to human health	Substances chronically hazardous to human health	Substances hazardous to the environment	Accident Precaution Chemicals
Methanol	97-1-80, 10% *	Not applicable	Not applicable	004, 85 % *
** Mixtures containing this % or more are designated*				

C. Act on Registration, Evaluation, etc. of Chemicals (K-REACH) Applicable

Chemical name	Existing substances subject to registration	Existing substances not likely to be subject to registration	Existing substances known to be of very low risk	Substances with unknown hazards
Methanol	Applicable	Not applicable	Not applicable	Not applicable

Chemical name	Substances acutely hazardous to human health	Substances chronically hazardous to human health	Substances hazardous to the environment
Methanol	97-1-80, 10% *	Not applicable	Not applicable
** Mixtures containing this % or more are designated*			

Chemical name	Korean Existing Chemicals Inventory	Priority control substances
Methanol	KE-23193	Not applicable

D. Safety Control of Dangerous Substances Act
Dangerous Goods Class Class 4 - flammable liquids - alcohols, 400l

E. Wastes Management Dispose of waste in accordance with environmental legislation.

F. Other Regulations
Pollutant Release and Transfer Register (PRTR)

Chemical name	Toxic Release Inventory Chemicals - Group 1	Toxic Release Inventory Chemicals - Group 2
Methanol	-	>=1.0 % w/w

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA Listed
DSL/NDSL Listed on DSL.
EINECS/ELINCS Listed.
ENCS Listed.
IECSC Listed.
KECI Listed.
PICCS Listed.

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals

16. Other information

A Information source and references

Prepared By Product Safety Department.

Key or legend to abbreviations and acronyms used in the safety data sheet
List may include phrases which are not applicable to this product

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
GHS	Globally Harmonized 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
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
KECI	Korean 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
MSDS	Material Safety Data Sheet
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances

PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
U.S. Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

B Issuing Date 17-Dec-2020

C Revision number and date

Revision Number	11.4
Revision Note	SDS sections updated: 4, 11, 12, 15.
Revision date	07-Jan-2026

D Other .

Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. Users should make their own investigations to determine the suitability of the information for their particular purposes. This document is intended as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Methanex Corporation and its subsidiaries make no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Methanex Corp. will not be responsible for damages resulting from use of or reliance upon this information.

End of Safety Data Sheet