SAFETY DATA SHEET

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Date of Issue: 11 April 2018
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In accordance with Schedule 1 of Hazardous Products Regulations (HPR) (WHMIS 2015)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name	M-Coat A
Other Means of Identification	None

Recommended use and restrictions

Recommended use	Coatings and paints, thinners, paint removers.
Restrictions on use	Anything other than the above.

Initial Supplier Identifier

Company Identification	VISHAY MEASUREMENTS GROUP, INC.
Telephone	Post Office Box 27777 Raleigh, NC 27611 USA
E-Mail (competent person)	mm.us@vishaypg.com

Emergency telephone number

Emergency Phone No.	1-800-424-9300	CHEMTREC (24 hours)
Languages spoken	English	

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

In accordance with Schedule 1 of Hazardous Products Regulations (HPR) (WHMIS 2015)

Flammable Liquid - Category 3
Aspiration hazard - Category 1
Acute toxicity (Dermal) - Category 4
Acute toxicity (Inhalation) - Category 4
Skin corrosion/irritation - Category 2
Eye Irritation - Category 2
Specific target organ toxicity — single exposure - Category 3
Specific target organ toxicity — repeated exposure - Category 2
Aquatic toxicity, Chronic - Category 2

Label elements

Hazard Pictogram(s)

Signal Word(s)

DANGER

Hazard Statement(s)

Flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Harmful in contact with skin.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Ground/bond container and receiving equipment.
Use non-sparking handtools.
Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapours/spray.
Take off contaminated clothing and wash it before reuse.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get medical advice/attention if you feel unwell.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents in accordance with local, state or national legislation.

Other hazards None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Not applicable

Mixtures

GHS Classification

Chemical Name	CAS No.	Concentration (%W/W)	Common name(s), synonym(s) of the substance	Hazard classification
Xylene	1330-20-7	45 - 70	1,2 dimethylbenzene; 1,2-xylene; Benzene, dimethyl	Flammable Liquid, Category 3 Aspiration hazard, Category 1 Acute toxicity (Dermal) - Category 4 Acute toxicity (Inhalation) - Category 4 Skin corrosion/irritation, Category 2 Eye Irritation, Category 2 Specific target organ toxicity — single exposure, Category 3 (Respiratory tract) Specific target organ toxicity — repeated exposure, Category 2 (Central nervous system, Liver, Kidneys) Aquatic toxicity, Chronic - Category 2
Ethylbenzene	100-41-4	7 - 13	Benzene,ethyl-; Ethylbenzol	Flammable Liquid, Category 2 Aspiration hazard, Category 1 Acute toxicity (Inhalation) - Category 4 Specific target organ toxicity — repeated exposure, Category 2 (Hearing deterioration) Aquatic toxicity, Chronic - Category 3

Prescribed Concentration Ranges used for trade secret purposes (Canada Gazette, Part II, Vol. 152, No. 8)

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Self-protection of the first aider — Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Contaminated clothing should be laundered before reuse. Do not breathe vapour. Ensure adequate ventilation. Wear suitable respiratory protective equipment if exposure to high levels of material are likely. Do not use mouth-to-mouth resuscitation.

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

	Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Apply artificial respiration if necessary. Call a POISON CENTER/doctor.
Skin Contact	IF ON SKIN (or hair): Remove contaminated clothing and wash all affected areas with plenty of water. Contaminated clothing should be thoroughly cleaned. If skin irritation occurs, get medical advice/attention.
Eye Contact	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.
Ingestion	IF SWALLOWED: Rinse mouth. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Immediately call a POISON CENTER/doctor.
Most important symptoms and effects, both acute and delayed	May be fatal if swallowed and enters airways. Harmful in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically. IF SWALLOWED: Do NOT induce vomiting.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media	
Suitable Extinguishing Media	Extinguish preferably with foam, carbon dioxide or dry chemical.
Unsuitable extinguishing Media	Water is not generally recommended since it can be ineffective; however, it can be used successfully to cool containers exposed to the fire and to disperse fumes.
Special hazards arising from the substance or mixture	Flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon oxides and traces of incompletely burned carbon compounds. May form explosive mixture with air particularly in enclosed spaces. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.
Special protective equipment and precautions for fire fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Ensure suitable personal protection during removal of spillages. See Section: 8.
Environmental precautions	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.
Methods and material for containment and cleaning up	Ensure suitable personal protection (including respiratory protection) during removal of spillages. Contain spillages. Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste
Reference to other sections	See Section: 8, 13

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Ensure adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Use personal protective equipment as required. See Section: 8.

	Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.
Conditions for safe storage, including any incompatibilities	Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage temperature	Ambient.
Incompatible materials	Stable under normal conditions.
Specific end use(s)	See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE	CAS No.	ACGIH® TLV® (ppm)		OSHA PEL (ppm)		Note
		TWA	STEL	TWA	STEL	
Xylene	1330-20-7	100	-	150	-	A4
Ethylbenzene	100-41-4	20	-			A3

Source: American Conference of Governmental Industrial Hygiene. TLV: Threshold Limit Value (ACGIH). PEL (OSHA)
A3: Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histological type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiological studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.
A4: Not Classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of the lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories.

Alberta: Occupational Health And Safety Code, 2009; Quebec: Health and Safety Work Act, 2016

SUBSTANCE	CAS No.	8-hour Occupational Exposure Limits			15-minute or ceiling (c) Occupational Exposure Limits		Note
		ppm	mg/m³	f/cc	STEL (ppm)	STEL (mg/m³)	
Xylene	1330-20-7	100	434	-	150	651	Alberta
		100	434	-	150	651	OEL
Ethylbenzene	100-41-4	100	434	-	125	543	Alberta
		100	434	-	125	543	OEL

Source: Alberta: Occupational Health And Safety Code, 2009
OEL: Quebec Work Health and Safety Regulations, Health and Safety Work Act, (Chapter S – 2.1, a. 223)

British Columbia: Occupational Health and Safety Guidelines, 2015; Northwest Territories: Occupational Health and Safety Regulations, 2012; Yukon Territory: Occupational Health and Safety Act, 1986

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Xylene	1330-20-7	100	-	150	-	WEL
		100	-	150	-	NW
		100	435	150	650	YK
Ethylbenzene	100-41-4	20	-	-	-	WEL
		100	-	125	-	NW, Schedule R

Source: WEL: Occupational Health and Safety Guidelines Part 5: Chemical Agents and Biological Agents (British Columbia)
NW: WSCC, Occupational Health and Safety Regulations, Northwest Territories Volume 3
Yukon Territory (YK): Occupational Health and Safety Act. O.I.C. 1986/164 Occupational Health Regulations.
Schedule R: Advice on Additional Personal Protection (APP)

Ontario: Occupational Health and Safety Act, 1990; Saskatchewan: Occupational Health and Safety Regulations, 1996.

SUBSTANCE	CAS No.	Time Weighted Average (TWA)	STEL (ppm)	Note
Xylene	1330-20-7	100	150	WEL
		100	150	SK

Ethylbenzene	100-41-4	100	125	WEL
		100	125	SK, T20

Source: WEL: Occupational Health and Safety Act, R.R.O. 1990, Regulation 833, CONTROL OF EXPOSURE TO BIOLOGICAL OR CHEMICAL AGENTS (Ontario)
Saskatchewan (SK): Occupational Health and Safety Act, 1993. O-1.1 REG 1 Occupational Health and Safety Regulations, 1996.
T20: Applicable Laws: Section 306 and 311.

Biological limit value

SUBSTANCE	CAS No.	Biological exposure determinant factors	Biological Exposure Indices	Sampling Time	Note
Xylene	1330-20-7	Methylhippuric acids: Urine	1.5 mg/g Creatinine	End of Shift	-
Ethylbenzene	100-41-4	Total (Mandelic acid and Phenylglyoxylic acid): Urine	0.15 mg/g Creatinine	End of Shift: end of workweek	Ns

Source: 2015 ACGIH Biological Exposure Indicies (BEIs)
Ns - Nonspecific

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Eyewash bottles should be available.

Individual protection measures, such as personal protective equipment (PPE)

General hygiene measures for the handling of chemicals are applicable. Avoid contact with skin, eyes or clothing. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Do not eat, drink or smoke at the work place.

Eye/face protection

Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection.

Skin protection

Hand protection: Wear impervious gloves. Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Body protection: Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Open system(s): Wear suitable respiratory protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Amber liquid
Odour	Benzene-like aromatic odour
Odour threshold	Not established.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	137℃
Flash point	26℃ [Closed cup]
Evaporation rate (Water = 1)	0.6 (BuAc = 1)
Flammability (solid, gas)	Liquid - Not applicable
Upper/lower flammability or explosive limits	Flammable Limits (Lower) (%v/v): 1.0 (Air) Flammable Limits (Upper) (%v/v): 7.0 (Air)

Vapour pressure	>1.1 bar
Vapour density	3.6 (Air = 1)
Relative density	1.14 g/cm^3
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Amber liquid
Oxidising properties	Benzene-like aromatic odour
Other information	Volatile Organic Compound Content (%): 589 g/L

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Flammable liquid and vapour. The vapour may be invisible, heavier than air and spread along ground. May form explosive mixture with air particularly in enclosed spaces. Susceptible to violent exothermic polymerisation, initiated by heating or the presence of catalysts.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials	Keep away from: Strong oxidising agents and polymerisation catalysts, such as peroxy or azo compounds, strong acids, alkalis and oxidising agents.
Hazardous decomposition product(s)	May decompose in a fire giving off toxic fumes. Carbon oxides and traces of incompletely burned carbon compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity - Ingestion	Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.
Acute toxicity - Inhalation	Acute toxicity (Inhalation), Category 3: Toxic if inhaled. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 19.0 mg/l.
Xylene	Acute toxicity (Inhalation) - Category 4 Harmonised Classification LC50 (rat) 6350 ppm (27571 mg/m³) (EU Method B.2) (Hine, 1970)
Ethylbenzene	Acute toxicity (Inhalation) - Category 4 Harmonised Classification No data
Acute toxicity - Skin Contact	Acute toxicity (Dermal) - Category 4: Harmful in contact with skin. Acute Toxicity Estimate Mixture Calculation: Estimated LC50 1896.6 mg/kg bw/day.
Xylene	Acute toxicity (Dermal) - Category 4 Harmonised Classification Read across LD50 (rabbit) mg/kg bw/day 12126 (Unnamed, 1962)
Skin corrosion/irritation	Skin corrosion/irritation, Category 2: Causes skin irritation.
Xylene	Skin corrosion/irritation, Category 2 Read across (chevron paraxylene). Slightly irritating to skin. (rat) (EU Method B.4) (Chatterjee, 2005).
Serious eye damage/irritation	Eye Irritation, Category 2: Causes serious eye irritation.
Xylene	Eye Irritation, Category 2 Harmonised Classification Read across. Slightly irritating to skin. (rabbit) (Unnamed, 1983)
Respiratory or skin sensitization	Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Based upon the available data, the classification criteria are not met.
Carcinogenicity	Based upon the available data, the classification criteria are not met.
Xylene	IARC Classification: Group 3. Not classifiable as to its carcinogenicity to humans.
Ethylbenzene	ACGIH: Confirmed Animal Carcinogen with Unknown Relevance to Humans IARC Classification: Group 2B. Possibly carcinogenic to humans.
Reproductive toxicity	Based upon the available data, the classification criteria are not met.

STOT - single exposure	Specific target organ toxicity — single exposure, Category 3: May cause respiratory irritation.
Xylene	Specific target organ toxicity — single exposure, Category 3 No data
STOT - repeated exposure	Specific target organ toxicity — repeated exposure, Category 3; May cause damage to organs through prolonged or repeated exposure.
Xylene	Specific target organ toxicity — repeated exposure, Category 2 Oral: NOAEL 750 mg/kg bw/day (rat) (EU Method B.32) (Unnamed, 1986) Inhalation: NOAEL >3515 mg/kg bw/day (Dog) (Carpenter, 1975) Dermal: No data
Ethylbenzene	Specific target organ toxicity — repeated exposure, Category 2 Oral: NOAEL 75 mg/kg bw/day (rat) (OECD 407) (Unnamed, 2003) Inhalation: NOAEC 75 ppm (rat) (OECD 453) (Unnamed, 1999) Dermal: No data
Aspiration hazard	Aspiration hazard, Category 1; May be fatal if swallowed and enters airways.
Xylene	Aspiration hazard, Category 1 No data
Ethylbenzene	Aspiration hazard, Category 1 Harmonised Classification No data
Other information	None known.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Aquatic toxicity, Chronic - Category 2; Toxic to aquatic life with long lasting effects. Estimated Mixture LC50 > 1 to ≤ 10 mg/l. (Fish)
Xylene	Aquatic toxicity, Chronic - Category 2 Acute: Read across LC50 (fish) mg/l 8.4 (96 hour) (OECD 203) (Galassi, 1988) Chronic: NOEC (Fish) mg/l >1.3 (56 Days) (Walsh, 1977)
Ethylbenzene	Aquatic toxicity, Chronic - Category 3 Acute: LC50 (fish) mg/l 7 (48 hour) (ASTM Guideline, 1980) (Unnamed, 1987) Chronic: No data
Persistence and degradability	Part of the components are biodegradable.
Bioaccumulative potential	No data.
Mobility in soil	The product is predicted to have low mobility in soil (Insoluble in water).
Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Do not release undiluted and unneutralised to the sewer. Dispose of contents in accordance with local, state or national legislation. Dispose of this material and its container as hazardous waste. Containers of this material may be hazardous when empty since they retain product residue.

SECTION 14: TRANSPORT INFORMATION

		ADR/RID	IMDG	IATA/ICAO
14.1	**UN number**	UN 1263	UN 1263	UN 1263
14.2	**UN proper shipping name**	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3	**Transport hazard class(es)**	3	3	3
14.4	**Packing group**	III	III	III
14.5	**Environmental hazards**	Not classified	Classified as a Marine Pollutant.	Not classified
14.6	**Special precautions for user**	See Section: 2		
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.		

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulations	
CEPA, Domestic Substances List	Xylene: Yes Ethylbenzene: Yes
CEPA, Priority Substances List	Xylene: PSL 1
CEPA, List of Toxic Substances (Schedule 1)	Xylene: VOC - Item 65 Ethylbenzene: VOC - Item 65
CEPA, National Pollutant Release Inventory	Xylene (Mixed isomers: m-xylene, o-xylene, p-xylene): Threshold Category: Part 1A, Mass Threshold: 10 tonnes Concentration threshold: 1%; Threshold Category: Part 5, Mass Threshold: 1 tonnes of 10 tonnes Total VOC air release, Concentration threshold: N/A. Ethylbenzene: Threshold Category: Part 1A, Mass Threshold: 10 tonnes MPO Concentration threshold: 1%
CEPA, Environmental Emergency Regulations	Xylene: Part 1 - Substances Likely to Explode. Concentration: ≥ 1% w/w. Volume (Minimum): 8000 tonnes (metric). Ethylbenzene: Part 1 - Substances Likely to Explode. Concentration: ≥ 1% w/w. Volume (Minimum): 7000 tonnes (metric).
CEPA, VOC Specific Concentration Limit for Architectural Coatings Regulations	Xylene: Yes (VOC) Ethylbenzene: Yes (VOC)
CEPA, VOC Specific Concentration Limit for Automotive Refinishing Products Regulations	Xylene: Yes (VOC) Ethylbenzene: Yes (VOC)
Non-Regional	
IARC Monographs**,** List of Classifications	Xylene: Yes - Group 3 Ethylbenzene: Yes - Group 2B

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

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References:
Existing Safety Data Sheet (SDS).
EU: Harmonised Classification(s) for Xylene (CAS No. 1330-20-7), Ethylbenzene (CAS No. 100-41-4). Existing ECHA registration(s) for Xylene (CAS No. 1330-20-7), Ethylbenzene (CAS No. 100-41-4).

Literature References:

1. Hine CH, Zuidema HH. (1970) The toxicological properties of hydrocarbon solvents. Industrial Medicine 39, 215-200.
2. Chatterjee A, Babu R, Abaghotu E and Singh M. (2005) The effect of occlusive and unocclusive exposure to xylene and benzene on skin irritation and molecular responses in hairless rats. Arch Toxicol 79: 294-301
3. Carpenter CP, Kinkead ER, Geary DJ, et al. (1975) Petroleum hydrocarbon toxicity studies: V. Animal and human response to vapors of mixed xylenes. Toxicol Appl Pharmacol 33:543-558
4. Galassi S, Mingazzini M, Vigano L, Cesareo D, Tosato ML. (1988) Approaches to modelling toxic responses of aquatic organisms to aromatic hydrocarbons. Ecotoxicology and Environmental Safety. 16: 158-169
5. Walsh, Armstrong, Bartley, Salman and Frank. (1977) Residues of emulsfied xylene in aquatic weed control and their impact on rainbow trout. Appl. Sci. Branch, Eng. Res. Cent. Denver, CO: 15p.

LEGEND

LTEL: Long Term Exposure Limit
STEL: Short Term Exposure Limit
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
OSHA = Occupational Safety and Health Administration
NIOSHTIC: National Institute for Occupational Safety and Health Technical Information Center

ACGIH: American conference of Governmental Industrial Hygiene
BEI: Biological Exposure Indices (ACGIH)
TLV: Threshold Limit Value (ACGIH)
TWA: Time Weighted Average
VOC: Volatile Organic Compound
EU: European Union
CEPA (Canadian Environmental Protection Act)

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