

Eastman(TM) DMAA

Version	Revision Date:	SDS Number:	Date of last issue: 08/24/2014
2.4	06/29/2018	150000001076	Date of first issue: 06/10/2011
PRD		SDSCA / EN / 0001	0037296881 / 0004315961

SECTION 1. IDENTIFICATION

Product name : Eastman(TM) DMAA

Product code : P0150009

Manufacturer or supplier's details

Company name of supplier : Eastman Chemical Company

Address : 200 South Wilcox Drive
Kingsport TN 37660-5280

Telephone : (423) 229-2000

Emergency telephone number : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

Recommended use of the chemical and restrictions on use

Recommended use : Chemical intermediate

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
N,N-dimethylacetoacetamide	2044-64-6	> 80
Water	7732-18-5	< 20

SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.
Treat symptomatically.
If symptoms persist, call a physician.In case of skin contact : Wash off with soap and water.
If symptoms persist, call a physician.

Eastman(TM) DMAA

Version	Revision Date:	SDS Number:	Date of last issue: 08/24/2014
2.4	06/29/2018	150000001076	Date of first issue: 06/10/2011
PRD		SDSCA / EN / 0001	0037296881 / 0004315961

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed : Seek medical advice.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO₂)
Dry chemical
Water spray

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during fire-fighting : None known.

Further information : None known.

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions : Avoid release to the environment.

Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : None known.

Advice on safe handling : Use only in area provided with appropriate exhaust ventilation.
Wash thoroughly after handling.

Conditions for safe storage : Keep tightly closed.

Eastman(TM) DMAA

Version	Revision Date:	SDS Number:	Date of last issue: 08/24/2014
2.4	06/29/2018	150000001076	Date of first issue: 06/10/2011
PRD		SDSCA / EN / 0001	0037296881 / 0004315961

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Wear suitable gloves.

Eye protection : Safety glasses

Protective measures : Remove respiratory and skin/eye protection only after vapours have been cleared from the area.
Ensure that eye flushing systems and safety showers are located close to the working place.
Use personal protective equipment as required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : yellow

Odour : ammoniacal

Odour Threshold : not determined

pH : not determined

Melting point/range : not determined

Boiling point/boiling range : 100 °C

Flash point : 122 °C

Method: Cleveland open cup

Evaporation rate : not determined

Self-ignition : 338 °C
Method: ASTM D2155

Eastman(TM) DMAA

Version	Revision Date:	SDS Number:	Date of last issue: 08/24/2014
2.4	06/29/2018	150000001076	Date of first issue: 06/10/2011
PRD		SDSCA / EN / 0001	0037296881 / 0004315961

Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Relative density	:	1.06 (24 °C)
Solubility(ies) Water solubility	:	completely soluble
Partition coefficient: n-octanol/water	:	Pow: 0.27 log Pow: -0.58
Auto-ignition temperature	:	not determined
Decomposition temperature	:	Method: DTA No exotherm to 450°C
Viscosity Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Explosive properties	:	No data available
Oxidizing properties	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Stable None known.
Conditions to avoid	:	None known.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO ₂) Carbon monoxide

Eastman(TM) DMAA

Version	Revision Date:	SDS Number:	Date of last issue: 08/24/2014
2.4	06/29/2018	150000001076	Date of first issue: 06/10/2011
PRD		SDSCA / EN / 0001	0037296881 / 0004315961

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Product:

Acute oral toxicity : Remarks: None.

Acute inhalation toxicity : Remarks: No significant adverse effects were reported

Acute dermal toxicity : Remarks: No significant adverse effects were reported

Components:**N,N-dimethylacetoacetamide:**

Acute oral toxicity : LD50 Oral (Rat): > 3,200 mg/kg
Remarks: (highest dose tested)

LD50 Oral (Mouse): > 3,200 mg/kg
Remarks: (highest dose tested)

Acute inhalation toxicity : LC50 (Rat): > 3.7 mg/l
Exposure time: 6 h
Remarks: (highest dose tested)

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : No data available

Components:**N,N-dimethylacetoacetamide:**

Species : Rabbit
Exposure time : 24 h
Result : slight

Species : Guinea pig
Exposure time : 24 h
Result : slight

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks : No data available

Eastman(TM) DMAA

Version	Revision Date:	SDS Number:	Date of last issue: 08/24/2014
2.4	06/29/2018	150000001076	Date of first issue: 06/10/2011
PRD		SDSCA / EN / 0001	0037296881 / 0004315961

Components:**N,N-dimethylacetoacetamide:**

Species	:	Rabbit
Result	:	slight

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks	:	No data available
---------	---	-------------------

Components:**N,N-dimethylacetoacetamide:**

Species	:	Guinea pig
Result	:	none

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Product:

Remarks	:	This information is not available.
---------	---	------------------------------------

Reproductive toxicity

Not classified based on available information.

Product:

Effects on fertility	:	Remarks: No data available
----------------------	---	----------------------------

STOT - single exposure

Not classified based on available information.

Product:

Remarks	:	No data available
---------	---	-------------------

STOT - repeated exposure

Not classified based on available information.

Product:

Remarks	:	No data available
---------	---	-------------------

Eastman(TM) DMAA

Version	Revision Date:	SDS Number:	Date of last issue: 08/24/2014
2.4	06/29/2018	150000001076	Date of first issue: 06/10/2011
PRD		SDSCA / EN / 0001	0037296881 / 0004315961

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Information on likely routes of exposure**Product:**

Inhalation : Remarks: None known.

Skin contact : Remarks: None known.

Eye contact : Remarks: None known.

Ingestion : Remarks: None known.

Further information**Product:**

Remarks : None known.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****N,N-dimethylacetoacetamide:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 977.74 mg/l
Exposure time: 96 h

NOEC: (Pimephales promelas (fathead minnow)): > 977.74
mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (daphnid): > 1,005 mg/l
aquatic invertebrates Exposure time: 48 h

NOEC: (daphnid): > 1,005 mg/l
Exposure time: 48 h

Persistence and degradability**Components:****N,N-dimethylacetoacetamide:**

Biochemical Oxygen De- : 6.9 mg/g
mand (BOD) Incubation time: 5 d

11 mg/g
Incubation time: 20 d

Eastman(TM) DMAA

Version	Revision Date:	SDS Number:	Date of last issue: 08/24/2014
2.4	06/29/2018	150000001076	Date of first issue: 06/10/2011
PRD		SDSCA / EN / 0001	0037296881 / 0004315961

Chemical Oxygen Demand : 791 mg/g
(COD)

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations**TDG**

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION**The components of this product are reported in the following inventories:**

CH INV	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: 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

Eastman(TM) DMAA

Version	Revision Date:	SDS Number:	Date of last issue: 08/24/2014
2.4	06/29/2018	150000001076	Date of first issue: 06/10/2011
PRD		SDSCA / EN / 0001	0037296881 / 0004315961

IECSC : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 06/29/2018

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

SAFETY DATA SHEET



Eastman(TM) DMAA

Version	Revision Date:	SDS Number:	Date of last issue: 08/24/2014
2.4	06/29/2018	150000001076	Date of first issue: 06/10/2011
PRD		SDSCA / EN / 0001	0037296881 / 0004315961

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.

CA / EN