

Safety Data Sheet

Printing date 08/17/2016

Version Number 1.0

Reviewed on 08/17/2016

1 Identification

Product identifier

Trade name: ***EXP 241 S5***

SDS ID Number: 2701

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

This product contains an ingredient that is not listed on the TSCA Inventory. It should be used for research and development purposes only under the direct supervision of a technically qualified individual.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittamore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Harmful if swallowed.
Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms



GHS05 GHS07 GHS08

Danger

Hazard statements

Harmful if swallowed.
Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

Safety Data Sheet

Printing date 08/17/2016

Version Number 1.0

Reviewed on 08/17/2016

Trade name: *EXP 241 S5*

(Cont. from page 1)

Precautionary statements

Wash thoroughly after handling.

Wear eye protection / face protection.

Do not eat, drink or smoke when using this product.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Immediately call a POISON CENTER/doctor.

Get medical advice/attention if you feel unwell.

Rinse mouth.

NFPA ratings (scale 0 - 4)

Health = 2

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2

Flammability = 0

Reactivity = 0

Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with additional nonhazardous ingredients.**Hazardous components:**

10124-37-5	Calcium nitrate	30-50%
111-46-6	Diethylene glycol	1.0-3.0%

Additional information:

This material is for R&D evaluation only. It can only be used for R&D evaluations until PMN review by EPA is completed. If this material is used in plants or non-R&D locations for R&D evaluation, its use must be supervised by a technically qualified individual. Review all sections of this MSDS prior to use.

4 First-aid measures**Description of first aid measures****General information:** Get medical advice/attention if you feel unwell.**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact: Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.**After swallowing:** Do not induce vomiting; immediately call for medical help.

(Cont. on page 3)

USGHS

Safety Data Sheet

Printing date 08/17/2016

Version Number 1.0

Reviewed on 08/17/2016

Trade name: *EXP 241 S5*

(Cont. from page 2)

Information for doctor:**Most important symptoms and effects, both acute and delayed** Harmful if swallowed.**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures**Extinguishing media****Suitable extinguishing agents:**

This material, if dried to a solid powder-like form, will become an oxidizer, which may provide oxygen to combustible materials.

Special hazards arising from the substance or mixture No further relevant information available.**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Avoid release to the environment.**Methods and material for containment and cleaning up:**

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Handling:****Precautions for safe handling**

Risk of serious damage to eyes.

Prevent formation of aerosols.

Avoid contact with eyes, skin and clothing.

Do not take internally.

Practice good personal hygiene to avoid ingestion.

Use only with adequate ventilation.

Wash clothing before reuse.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.**Information about protection against explosions and fires:** Protect from heat.

(Cont. on page 4)

USGHS

Safety Data Sheet

Printing date 08/17/2016

Version Number 1.0

Reviewed on 08/17/2016

Trade name: *EXP 241 S5*

(Cont. from page 3)

Conditions for safe storage, including any incompatibilities**Storage:****Information about storage in one common storage facility:** Protect from heat.**Further information about storage conditions:**

Protect from heat and direct sunlight.

Keep receptacle tightly sealed.

Specific end use(s)

This product contains an ingredient that is not listed on the TSCA Inventory. It should be used for research and development purposes only under the direct supervision of a technically qualified individual.

8 Exposure controls/personal protection**Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:****111-46-6 Diethylene glycol**WEEL (USA) | Long-term value: 10 mg/m³**Additional information:** The lists that were valid during the creation were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Rubber or other impervious gloves should be worn to prevent skin contact.**Material of gloves** Nitrile rubber.**Eye protection:**

Safety glasses with side shield protection.



A face shield should also be worn if there is potential exposure to splash or spray.

Body protection:

Use personal protective equipment as required.

(Cont. on page 5)

USGHS

Safety Data Sheet

Printing date 08/17/2016

Version Number 1.0

Reviewed on 08/17/2016

Trade name: *EXP 241 S5*

(Cont. from page 4)

Take off contaminated clothing.

9 Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.

pH-value (~): Not determined.**Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	Not applicable.

Flammability (solid, gaseous): Not applicable.

Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.

Vapor pressure:	Not determined.
Density: (~)	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with Water: Not miscible or difficult to mix.**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not applicable.

Other information No further relevant information available.**10 Stability and reactivity****Reactivity** Stable under normal conditions.**Chemical stability****Thermal decomposition:** No decomposition if used according to specifications.**Possibility of hazardous reactions**

While not classified as oxidising, if allowed to dry out and come into contact with combustible material, this product may cause fire.

(Cont. on page 6)
USGHS

Safety Data Sheet

Printing date 08/17/2016

Version Number 1.0

Reviewed on 08/17/2016

Trade name: *EXP 241 S5*

(Cont. from page 5)

Conditions to avoid No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide**11 Toxicological information****Delayed and immediate effects and chronic effects from short or long term exposure**

May cause damage to organs through prolonged or repeated exposure.

Information on toxicological effects**Acute toxicity:****LD/LC50 values relevant for classification:****10124-37-5 Calcium nitrate**

Oral | LD50 | 302 mg/kg (rat)

111-46-6 Diethylene glycol

Oral | LD50 | 1120 mg/kg (human)

Primary irritant effect:**on the skin:** No irritating effect expected**on the eye:** Causes serious eye damage.**inhalation:** No irritating effect expected**Ingestion:**

May cause damage to organs through prolonged or repeated exposure. Route of exposure: Oral.

Harmful if swallowed.

Additional toxicological information:**Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:**
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

102-71-6 | Triethanolamine

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NTP (National Toxicology Program)**K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.

(Cont. on page 7)

USGHS

Safety Data Sheet

Printing date 08/17/2016

Version Number 1.0

Reviewed on 08/17/2016

Trade name: *EXP 241 S5*

(Cont. from page 6)

Additional ecological information:**General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**13 Disposal considerations****Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.**14 Transport information****UN-Number**

DOT, IMDG, IATA Not applicable.

UN proper shipping name

DOT, IMDG, IATA Not applicable.

Transport hazard class(es)DOT, IMDG, IATA
Class Not applicable.**Packing group**

DOT, IMDG, IATA Not applicable.

Environmental hazards: Not applicable.**Special precautions for user** Not applicable.**Transport/Additional information:**

DOT

Remarks: Not Regulated.**UN "Model Regulation":** Not applicable.**15 Regulatory information****SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

(Cont. on page 8)

USGHS

Safety Data Sheet

Printing date 08/17/2016

Version Number 1.0

Reviewed on 08/17/2016

Trade name: *EXP 241 S5*

(Cont. from page 7)

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

10124-37-5	Calcium nitrate	32.6%
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SARA Section 312/Tier I & II Hazard Categories:

Health Hazard - Acute toxicity (any route of exposure)

Health Hazard - Serious eye damage or eye irritation

Health Hazard - Specific target organ toxicity (single or repeated exposure)

North America Chemical Inventory Status**TSCA (Toxic Substances Control Act - United States):**

Inventory listing could not be confirmed for one or more substances.

CEPA (Canadian DSL):

Inventory listing could not be confirmed for one or more substances.

Right to Know Ingredient Disclosure:

	Proprietary ingredient
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9038-95-3	Oxirane, methyl-, polymer with oxirane, monobutyl ether
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	Proprietary Polymer - NJ801416019
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7732-18-5	Water
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California Proposition 65**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

107-21-1	Ethylene glycol
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Carcinogenicity Categories**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)**Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.

If no g/L value is provided this product is not subject to above standard.

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies

62 Whittemore Avenue

Cambridge, MA 02140 USA

USA: +1-617-876-1400 (24 hours)

+1-800-354-5414

(Cont. on page 9)

USGHS

Safety Data Sheet

Printing date 08/17/2016

Version Number 1.0

Reviewed on 08/17/2016

Trade name: *EXP 241 S5***Date of preparation / last revision** 08/17/2016 / -

(Cont. from page 8)

The first date of preparation 08/17/2016**Number of revision times and the latest revision date** 1.0 / 08/17/2016

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