GHS-MSDS

MSDS_Number : AA01367-1000008448

1. Identification

A. Product name : Q-Coat Water Based ACRYLIC SEALER
○ Usage category : Water paint

B. Recommended Use and Restriction on Use
○ General use : for concrete
○ Restriction on use : Restricted to use other than recommended use

C. Manufacturer / Supplier / distributor information
○ Company name : Synergy Building Supplies
○ Address : 236 Planet, st Welshpool, WA, 6106
○ Emergency telephone number : 1300 655 853

2. Hazard identification

A. GHS Classification
Acute toxicity (oral) Category 4

B. GHS label elements
○ Hazard symbols

○ Signal words : WARNING
○ Hazard statements :
H302 Harmful if swallowed
○ Precautionary statements
- Prevention
P264 Wash hands and contact areas thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
- Response
P301+P312 If swallowed: If you feel unwell, get medical help.
P330 Rinse mouth.
- Storage
NO DATA
- Disposal
NO DATA

C. Other hazards which do not result in classification : (NFPA Classification)

NFPA grade Chemical Name	Health	Flammability	Reactivity	GHS Classification
Water	0	0	0	NO DATA
Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer	NO DATA	NO DATA	NO DATA	NO DATA
2-Butoxyethanol	3	2	0	H302

3. Composition/information on ingredients

Chemical Name	Trade names and Synonyms	CAS-NO	Content(%)
Water	Water	7732-18-5	69~79
Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer	Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer	64771-95-5	24~34
2-Butoxyethanol	2-Butoxyethanol	111-76-2	0.1~4

4. First-aid measures

A. Eye Contact : Flush exposed eyes with plenty of water for more than 15minutes.
If irritation, pain, swelling, tears or glaring happens, take medical assistant immediately
Do not rub your eyes.
If you wear a contact lenses, remove them first.

B. Skin Contact : Remove exposed clothing, and wash off exposed area with soap and water.
If symptoms like irritation or pain occurs, take medical assistant immediately.
Wash off with soap and water for more than 15 minutes. And take medical assistant immediately.
If symptoms like redness or irritation occurs, take medical assistant immediately.
Wash carefully after handling.
Wear gloves while washing the patient and avoid contact with exposed clothes.

C. Inhalation : Avoid from exposure, and move into an area with fresh air.
If not breathing, perform the artificial respiration.

If inhalated or swallowed, do not perform the inhalation phase of breathing
Perform the artificial respiration, using the pocket mask with one way valves or other respiratory medical devices.
If hard to breathe, administering oxygen
Remove contaminated clothing and shoes, and isolate it.
Take a medical assistant immediately.

D. Ingestion Contact : Inducing vomit.
If unconscious, do not induce vomiting. In case of vomiting, keep head down under hip to prevent lung inhalation.
If ingested large quantity, take medical assistant.
Take proper medical assistant by symtoms.
It is need to be considered that early removal of some ingested material by gastric lavage must be weighed against potential complications of bleeding or perforation
Flush mouth with water immediately.

E. Notes to Physician : There is no specific antidote and take an appropriate medical treatment.

5. Fire-fighting measures

A. Suitable (Unsuitable) extinguishing media
○ Suitable extinguishing media : Powder extinguishing agent, gaseous Extinguishing Agent, and regular foam.
○ (Unsuitable) extinguishing media : Avoid digestion using direct water.
Avoid use waterjet as fire extinguishing agent.
Avoid extinguishing fire with halogenting agent.
○ Case of big fire : Spread large amount of the extinguishing agent as a mist form with staying against wind.
Stay away more than 800m to avoid tank explosion.
Use appropriate protective device depend on the situation.

B. Specific hazards arising from the chemical
○ Pyrolysate : Carbon dioxide, toxic carbon compounds/Nitrogen compounds/sulfur compounds
Irritating and highly toxic gases may produced during the combustion by pyrolysis or combustion itself.
○ Fire and Explosion danger : Risk of medium-sized fire.
Aqueous (Exclude water-soluble one) products does not have risk of fire or explosion hazard by itself.
Vapor may be released to the ignition source and ignited.
May form explosive mixture at or above ignition point
Container may explode when heating
Leakages may fire / explosion hazard and could be easily ignited by heat, sparks or flames.
Vapors may explode indoors, outdoors, and in drains

C. Special protective actions for fire-fighters
○ Personal Precautions, protective equipment : Gas mask or air respirator, heat resistant clothing, heat resistant helmet, heat resistant gloves, heat resistant boots
○ Emergency procedures : Use appropriate extinguishing agents to catch fire.
If there is no risk, moving containers away from fire.
Cooling containers with water long time after extinguish fire.
Block the area except for the fire-suppression personnel.
Protect others from access and prohibit access to dangerous areas.
Tell the fire department, location of the fire and the hazardous features.
Use an unmanned fire extinguishing device, in case of large-sized fire. If not, leave it to burn.
Avoid inhalation of the substance or combustion products.
Do not approach if the tank is on fire.

6. Accidental release measures

A. Personal Precautions, protective equipment and emergency procedures
○ Personal Precautions, protective equipment : Gas mask for organic gases, other appropriate protective device / clothing / gloves.
○ Emergency procedures : Take an action to block the leakage if there is no risk.
Spray water to reduce amount of steam.
Do work with the personal protected devices such as gas mask for organic gases other appropriate protective devices / clothing / gloves.
Do not contact on the bare skin

B. Environmental precautions
○ Atmosphere : Do install the local ventilations and full ventilation system
Using local ventilation to Minimize the exposure to worker.
○ Soil : Trap spilled material at bottom in deep water pockets, excavated holding areas or within sand bag barriers.
Use absorbent to collect the appropriate container.
○ Under water : Use absorbent to collect the appropriate container.
Collect spilled material with mechanic devices

C. Methods and materials for containment and cleaning up
○ Small spill : Absorb for use sand or other non-combustible material.
Move to appropriate container for disposal of spilled material collected.
○ Large spill : Prohibit access of unnecessary people, isolate hazard area to secure.
Notify to central and local government, when emissions are above regulation.

7. Handling and storage

A. Precautions for safe handling : Keep or handle followed by Dangerous goods Safety Management Act
Ground for preventing the static discharge
Seal the container for minimizing the petroleum steam
Use local ventilations and a full ventilation system when handling

B. Conditions for safe storage, including any incompatibilities : Because of evaporation and contamination concerns,

airtight the container and store in a well-ventilated building.
Avoid direct sunlight while storing outdoor.
Storage temperature: 5 ~ 35 ℃
Avoid strong oxidizing agents, acid.
Stored in an isolated place, freezing caution, high temperature body caution.

8. Exposure controls/personal protection

A. Exposure Limits
○ Water
- ACGIH : NO DATA
- Biological exposure indices : NO DATA

○ Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer
- ACGIH : NO DATA
- Biological exposure indices : NO DATA

○ 2-Butoxyethanol
- ACGIH : TWA, 20 ppm (97 mg/m3)
- Biological exposure indices : 尿中 Butoxyacetic acid (BAA)(with hydrolysis) : 200 mg/g creatinine(工作后)

B. Engineering Controls :
▷ Do install the local ventilations and full ventilation system
▷ Using local ventilation to Minimize the exposure to worker.
▷ NO DATA
▷ NO DATA

C. Personal Protective Equipment
○ Respiratory protection : If there is possibility of direct contact or exposure to these substances should wear a authorized dust-proof mask or respirator for organic compounds
○ Eye protection : Install washing facilities and an emergency washing facilities close to workplace.
Let workers do wear the safety glasses in case hazard caused by mist may be expected.
If there is possibility of direct contact or exposure to these substances should wear authorized safty glasses or mask.
○ Hand protection : Wear appropriate protective gloves
If there is possibility of direct contact or exposure to these substances should wear authorized safety gloves for chemicals.
○ Skin protection : Wear appropriate chemical protective clothing.
Wear cleanroom garment or appropriate protective clothing to prevent contamination
If there is a possibility of direct contact or exposure to the substance Wear protective clothing for chemical substances

9. Physical and chemical properties

A. Appearance : liquid

B. Odor : nothing

C. Odor threshold : NO DATA

D. PH : 11~13

E. Melting point/Freezing point(℃) : NO DATA

F. Initial Boiling Point/Boiling Ranges(℃) : NO DATA

G. Flash point(℃) : NON Flammable

H. Evaporating Rate : NO DATA

I. Flammability(solid, gas)(℃) : NON Flammable

J. Upper/Lower Flammability or explosive limits : NO DATA

K. Vapour pressure : NO DATA

L. Solubility : NO DATA

M. Vapour density : NO DATA

N. Specific gravity : NO DATA

O. Partition coefficient of n-octanol/water : NO DATA

P. Autoignition temperature(℃) : NO DATA

Q. Decomposition temperature(℃) : NO DATA

R. Viscosity : 10~20sec/F.C #4

S. Molecular weight : NO DATA

10. Stability and reactivity

A. Chemical stability : NO DATA

B. Possibility of hazardous reactions : Do not contact with heat, spark, flame or other flammable sources
Avoid contaminants and friction

C. Conditions to avoid : Oxidation agent, metal and combustable materials

D. Hazardous decomposition products : Thermal decomposition products (carbon etc.,)

11.Toxicological information

A. Information on the likely routes of exposure
○ Respiratory tracts : Adverse lung effects, Dyspnoea, Hypothermia, Vomitting
○ Oral : Vomitting, Diarrhea, Stomach pain, Irregular heartbeat
○ Skin : Irritation, Burn, Adverse nerve effects
○ Eye : Irritation, eye damage

B. Delayed and immediate effects and also chronic effects from short and long term exposure
○ Water
- Acute toxicity
Oral : LD50 = 90000 mg/kg Rat
Dermal : NO DATA
Inhalation : NO DATA
- Skin corrosion/irritation : notapplicable
- Serious eye damage/irritation : NO DATA
- Respiratory sensitization : NO DATA
- Skin sensitization : NO DATA
- Carcinogenicity
IARC : NO DATA
OSHA : NO DATA
ACGIH : NO DATA
NTP : NO DATA
EU CLP : NO DATA
- Germ cell mutagenicity : NO DATA
- Reproductive toxicity : NO DATA
- STOT-single exposure : NO DATA
- STOT-repeated exposure : NO DATA
- Aspiration hazard : NO DATA

○ Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer
- Acute toxicity
Oral : NO DATA
Dermal : NO DATA
Inhalation : NO DATA
- Skin corrosion/irritation : NO DATA
- Serious eye damage/irritation : NO DATA
- Respiratory sensitization : NO DATA
- Skin sensitization : NO DATA
- Carcinogenicity
IARC : NO DATA
OSHA : NO DATA
ACGIH : NO DATA
NTP : NO DATA
EU CLP : NO DATA
- Germ cell mutagenicity : NO DATA
- Reproductive toxicity : NO DATA
- STOT-single exposure : NO DATA
- STOT-repeated exposure : NO DATA
- Aspiration hazard : NO DATA

○ 2-Butoxyethanol
- Acute toxicity
Oral : LD50 1414 mg/kg Guinea pig (OECD TG 401, GLP)
Dermal : LD50 >2000 mg/kg Rat (ECHA)
Inhalation : Vapor LC50 >7.4 mg/ℓ 7 hr Rat (ECHA)
- Skin corrosion/irritation : As a result of skin irritation test using rabbits, it is erythema irritation 2, which is not applicable under the GHS standard, but it is sufficient to determine that it is irritating EU Method B.4 (ECHA)
- Serious eye damage/irritation : Eye irritation test results showed conjunctival irritation index 2.6, iritis 0.56, conjunctival edema 1.8, indicating irritation OECD TG405, GLP (ECHA)
- Respiratory sensitization : NO DATA
- Skin sensitization : Skin sensitization test results using guinea pigs non-sensitization (OECD TG 406, ECHA)
- Carcinogenicity
IARC : Group 3
OSHA : NO DATA
ACGIH : A3
NTP : NO DATA
EU CLP : NO DATA
- Germ cell mutagenicity : Reverse mutation test using in vitro microorganisms OECD TG471, chromosomal abnormality test using mammalian cells OECD TG473 result negative, micronucleus test using mammalian bone marrow cells in vivo OECD TG474 result negative (ECHA)
- Reproductive toxicity : 2nd generation reproductive toxicity test (NTP) results, NOAEL (parental toxicity) = 720 mg/kg bw/day due to weight loss, fertility, etc., NOAEL (F1, F2) = 720 mg/kg bw/ due to weight loss of offspring day, no effect on reproductive toxicity was observed, developmental toxicity and teratogenic effects were not observed as a result of developmental toxicity test using rats (OECD TG414) NOAEL (development) = 100 mg/kg bw/day, NOAEL (teratogenicity)> 200 mg/kg bw/day (ECHA)
- STOT-single exposure : As a result of respiratory irritation test using mice, RD50 2818 ppm showed minimal or no sensory stimulation (ECHA)
- STOT-repeated exposure : As a result of a 90-day repeated oral toxicity test in rats, OECD TG408 showed some abnormalities in liver and cytoplasm in histopathological findings, but no adverse effects were observed. NOAEL

male <69 mg/kg bw/day, NOAEL female <82 mg/kg bw/day 90-day inhalation repeat toxicity test using mice OECD TG413, GLP Results NOAEC <31ppm (ECHA)
- Aspiration hazard : NO DATA

12. Ecological information

A. Ecotoxicity
○ Water
- Fish : NO DATA
- Crustaceans : NO DATA
- Algae : NO DATA
○ Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer
- Fish : NO DATA
- Crustaceans : NO DATA
- Algae : NO DATA
○ 2-Butoxyethanol
- Fish : LC50 1474 ㎎/ℓ 96 hr Oncorhynchus mykiss(OECD Guideline 203)
- Crustaceans : EC50 1800 ㎎/ℓ 48 hr Daphnia magna(OECD TG 202)
- Algae : EC50 911 ㎎/ℓ 72 hr Selenastrum capricornutum(OECD TG 201)

B. Persistence and degradability
○ Water
- Persistence : log Kow = -1.38
- Degradability : NO DATA
○ Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer
- Persistence : NO DATA
- Degradability : NO DATA
○ 2-Butoxyethanol
- Persistence : 0.81 log Kow (25 ° C, pH=7, BASF standard method)
- Degradability : NO DATA

C. Bioaccumulative potential
○ Water
- Bioaccumulative potential : NO DATA
- Biodegration : NO DATA
○ Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer
- Bioaccumulative potential : NO DATA
- Biodegration : NO DATA
○ 2-Butoxyethanol
- Bioaccumulative potential : NO DATA
- Biodegration : 90.4 % 28 day (OECD TG 301G)

D. Mobility in soil
○ Water
▷ NO DATA
○ Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer
▷ NO DATA
○ 2-Butoxyethanol
▷ NO DATA

E. Other adverse effects
○ Water
▷ NO DATA
○ Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer
▷ NO DATA
○ 2-Butoxyethanol
▷ Flsh Danio rerio: NOEC14d>100 mg/L OECD TG 204, Crustacean Daphnia magna: NOEC21d=100 mg/L OECD TG 211 (ECHA)

13. Disposal considerations

A. Disposal methods : Disposal material should keep in the airtighted container, and consign according to Waste Mateial Management Act
Pre-treat with oil-water separation method when it is available.
Recycle the recycleable materials, such as organic solvents, and then incinerate the residue at high temperature.
To prevent environmental pollution, dispose it to a licensed waste disposal company.

B. Special precautions for disposal : Prohibit the unauthorized disposal and incineration due to adversely affect natural ecosystems
Discard it followed by appropriate regulations

14. Transport information

A. UN number : Non regulated

B. Proper shipping name : N/A

C. Hazard class : Non dangerous goods

D. Packing group : N/A

E. Marine pollutant : N/A

F. Special precautions for user related to transport or transportation measures
○ EmS FIRE SCHEDULE : N/A
○ EmS SPILLAGE SCHEDULE : N/A

15. Regulatory information

○ Water
- Information of EU Classification
  ▷ Classification : NO DATA
  ▷ Risk Phrases : NO DATA
  ▷ Safety Phrase : NO DATA
- U.S. Federal regulations
  ▷ OSHA PROCESS SAFETY (29CFR1910.119) : notapplicable
  ▷ CERCLA Section 103 (40CFR302.4) : notapplicable
  ▷ EPCRA Section 302 (40CFR355.30) : notapplicable
  ▷ EPCRA Section 304 (40CFR355.40) : notapplicable
  ▷ EPCRA Section 313 (40CFR372.65) : notapplicable
- Rotterdam Convention listed ingredients : NO DATA
- Stockholm Convention listed ingredients : NO DATA
- Montreal Protocol listed ingredients : NO DATA

○ Methyl methacrylate, n-butyl methacrylate, 2-ethylhexyl acrylate-2-hydroxyethyl methacrylate, methacrylic acid copolymer
- Information of EU Classification
  ▷ Classification : NO DATA
  ▷ Risk Phrases : NO DATA
  ▷ Safety Phrase : NO DATA
- U.S. Federal regulations
  ▷ OSHA PROCESS SAFETY (29CFR1910.119) : NO DATA
  ▷ CERCLA Section 103 (40CFR302.4) : NO DATA
  ▷ EPCRA Section 302 (40CFR355.30) : NO DATA
  ▷ EPCRA Section 304 (40CFR355.40) : NO DATA
  ▷ EPCRA Section 313 (40CFR372.65) : NO DATA
- Rotterdam Convention listed ingredients : NO DATA
- Stockholm Convention listed ingredients : NO DATA
- Montreal Protocol listed ingredients : NO DATA

○ 2-Butoxyethanol
- Information of EU Classification
  ▷ Classification : NO DATA
  ▷ Risk Phrases : NO DATA
  ▷ Safety Phrase : NO DATA
- U.S. Federal regulations
  ▷ OSHA PROCESS SAFETY (29CFR1910.119) : NO DATA
  ▷ CERCLA Section 103 (40CFR302.4) : NO DATA
  ▷ EPCRA Section 302 (40CFR355.30) : NO DATA
  ▷ EPCRA Section 304 (40CFR355.40) : NO DATA
  ▷ EPCRA Section 313 (40CFR372.65) : NO DATA
- Rotterdam Convention listed ingredients : NO DATA
- Stockholm Convention listed ingredients : NO DATA
- Montreal Protocol listed ingredients : NO DATA

16. Other information

A. Reference
- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.

- This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS,NLM, SIDS, IPCS

B. Issue date : 2021-07-06

C. Revision number and Last date revised : 2.(2022-07-21)