

MATERIAL SAFETY DATA SHEET

GEON 178

Version Number 1.0 Page 1 of 6
Revision Date 05/03/2002 Print Date 11/4/2011

1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION

33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY : Product Stewardship (440)-930-1395

TELEPHONE

Emergency telephone : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure

number or accident).

Product name : GEON 178 Product code : P0178V000H

Chemical Name : Ethene, chloro-, homopolymer

CAS-No. : 9002-86-2

Product Use : Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

There are no known hazardous components above regulatory thresholds in this product.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This product may contain residual vinyl chloride monomer (VCM) (CAS number 75-01-4) below 8.5 ppm (0.00085%). OSHA considers VCM a suspect carcinogen and regulates it under 29 CFR 1910.1017. It is unlikely, under normal working conditions with adequate ventilation, that the OSHA action level and exposure limits will be exceeded for residual VCM. However, the user should take the necessary precautions (e.g. mechanical ventilation, local exhaust ventilation, air-monitoring, respiratory protection, etc.) to ensure airborne levels of any vapors including VCM or dusts that may be released during heating or processing are below regulated levels.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: : Inhalation, Ingestion

Acute exposure

Inhalation : Resin particles, like other inert materials, can be mechanically irritating.

At process temperatures, product emissions may cause irritation.

Ingestion : No adverse health effects are anticipated.

Eyes : Particulates, like other inert materials can be mechanically irritating. At

process temperatures, product emissions may cause irritation.

Skin : Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure : Refer to Section 11 for Toxicological Information.



MATERIAL SAFETY DATA SHEET

GEON 178

 Version Number 1.0
 Page 2 of 6

 Revision Date 05/03/2002
 Print Date 11/4/2011

Medical Conditions Aggravated by Exposure:

: None known.

4. FIRST AID MEASURES

Inhalation : Move to fresh air in case of accidental inhalation of dust or fumes from

overheating or combustion. When symptoms persist or in all cases of

doubt seek medical advice.

Ingestion : Not an anticipated health hazard.

Eyes : Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. If eye irritation persists, seek medical attention.

Skin : Wash off with soap and plenty of water. If skin irritation persists seek

medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : 736 °F ASTM D1929

Flammable Limits

Upper explosion limit : Not applicable Lower explosion limit : Not applicable Autoignition temperature : Not relevant

Suitable extinguishing media : Water spray, dry powder, foam, carbon dioxide (CO2).

Special Fire Fighting

Procedures

Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne

pressure mode should be worn to prevent illiaration of ano

contaminants.

Unusual Fire/Explosion

Hazards

: The solid polymer can only be burned with difficulty. Fires will tend to self-extinguish in the absence of a substantial external source of heat or flows. Hydrogen Chlorida (HCI) is generated upon product.

or flame. Hydrogen Chloride (HCl) is generated upon product combustion. Prompt cleaning of surfaces with water based detergents is indicated after a fire to minimize corrosive attack. Vinyl resin dust has a very low tendency to explode. The minimum ignition energy for vinyl resin dust clouds is much higher than that of natural materials such as starch and flour or of other plastic materials. However, as with any powder material, care should be taken to avoid creation of dust

clouds and to minimize ignition sources.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear appropriate personal protection during cleanup, such as

impervious gloves, boots and coveralls. Material can create slippery

conditions.

Environmental precautions : Should not be released into the environment. The product should not

be allowed to enter drains, water courses or the soil.

Methods for cleaning up : Clean up promptly by sweeping or vacuum. Package all material in



MATERIAL SAFETY DATA SHEET

GEON 178

Version Number 1.0 Page 3 of 6
Revision Date 05/03/2002 Print Date 11/4/2011

appropriate container for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

7. HANDLING AND STORAGE

Handling : Take measures to prevent the build up of static electricity. Use only in

area provided with appropriate exhaust ventilation. Material can

create slippery conditions.

Storage : Keep containers dry and tightly closed to avoid moisture absorption

and contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection : Under normal handling conditions a respirator is not required. If dusty

conditions occur wear appropriate respiratory protection.

Eye/Face Protection : Safety glasses with side-shields.

Hand protection : Protective gloves.

Skin and body protection : Long sleeved clothing.

Additional Protective

Measures

: Safety shoes.

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

Considerations Wash hands before breaks and at the end of workday.

Engineering measures : Heat only in areas with appropriate exhaust ventilation. Provide

appropriate exhaust ventilation at machinery.

Exposure limit(s)

There are no known hazardous components above regulatory thresholds in this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Solid Evaporation rate : Not applicable.

Appearance : powder, granular Specific Gravity : 1.4 g/cc

Color : NOT APPLICABLE Bulk density : 20 to 25 lbs/ft3 : Very faint Vapor pressure : Not applicable Odor Melting point/range : Not established Vapor density : Not applicable Boiling Point: : Not applicable Not applicable pН

Water solubility : Insoluble

10. STABILITY AND REACTIVITY

Stability : Stable.



MATERIAL SAFETY DATA SHEET

GEON 178

Version Number 1.0 Page 4 of 6
Revision Date 05/03/2002 Print Date 11/4/2011

Hazardous Polymerization : Will not occur.

Conditions to avoid : To avoid thermal decomposition, do not overheat. Keep away from

oxidizing agents and open flame.

Incompatible Materials : Avoid contact with strong oxidizers. Also, avoid contact with acetal or

acetal copolymers and with amine containing materials during processing. At processing conditions, these materials are mutually destructive and involve rapid degradation. Thoroughly purge and mechanically clean processing equipment to avoid even trace quantities of these materials from coming in contact with each other.

Prevent cross contamination of feedstocks.

Hazardous decomposition

products

: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), other hazardous materials, and smoke are all possible.

Prolonged heating (approximately 30 minutes or more) above 392 Deg F (200 deg C) or short term heating at 482 Deg F (250 deg C) may result in product decomposition and evolution of carbon monoxide and

hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

There are no known hazardous components above regulatory thresholds in this product.

12. ECOLOGICAL INFORMATION

Persistence and degradability : Not readily biodegradable.

Environmental Toxicity : Adverse ecological impact is not known or expected under normal use.

Bioaccumulation Potential : Does not bioaccumulate

Additional advice : No data available.

13. DISPOSAL CONSIDERATIONS

Product : Where possible, recycling is preferred to disposal or incineration. The

generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Contaminated packaging : Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation

and disposal in accordance with applicable federal, state/provincial

and local regulations.

14. TRANSPORT INFORMATION

U.S. D.O.T. / CA T.D.G. Classification (Non-bulk

: Not regulated for transportation.



MATERIAL SAFETY DATA SHEET

GEON 178

 Version Number 1.0
 Page 5 of 6

 Revision Date 05/03/2002
 Print Date 11/4/2011

ground)

ICAO/IATA : Not regulated for transportation.

IMO / IMDG : Not regulated for transportation.

15. REGULATORY INFORMATION

US Regulations:

OSHA Status : There are no known hazardous components above regulatory

thresholds in this product.

TSCA Status : All components of this product are listed on the TSCA inventory or are

exempt.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name CAS-No. RQ for Mixture/Product

Vinyl chloride 75-01-4 111,111 LB

monomer

California Proposition : WARNING! This product contains a chemical known in the State of

65 California to cause cancer.

Canadian Regulations:

WHMIS Classification : Not controlled.

DSL : Listed.

National Inventories:

Australia AICS : Listed.

China IECS : Listed.

Europe EINECS : Not determined.

Japan ENCS : Listed.

Korea KECI : Listed.

Philippines PICCS : Listed.

16. OTHER INFORMATION



MATERIAL SAFETY DATA SHEET

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Version Number 1.0 Revision Date 05/03/2002 Page 6 of 6 Print Date 11/4/2011

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