

1 IDENTIFICATION

- **Product identifier**
- **Trade name:** IES Sprayable Seam Sealer Gray
Article number: 1588
- **Application of the substance / the mixture** Sealant
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
International Epoxies & Sealers
30241 Commerce Drive
San Antonio, FL 33576
Tel: 1 (800) 451-7206
Fax: 1 (866) 239-0328
Email: mail@useies.com
- **Information department:** Product safety department.
- **Emergency telephone number:** INFOTRAC: 1 (800) 535-5053
Outside the U.S. Call Collect 1 (352) 323-3500

2 HAZARD(S) IDENTIFICATION

- **Classification of the substance or mixture**



GHS02

Flammable liquid and vapor.



GHS08

May cause damage to organs through prolonged
or repeated exposure.



GHS07

Causes skin irritation.
May cause respiratory irritation.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Warning
- **Hazard-determining components of labeling:**
Xylene, mixed isomers, pure
- **Hazard statements**
H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No
P243 smoking. Take precautionary measures against static discharge.

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- P280 Wear protective gloves/protective clothing/eye protection.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 3
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 additions.
- **Dangerous components:**
CAS: 1330-20-7 | Xylene, mixed isomers, pure 25-<50%
EINECS: 215-535-7
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 FIRST-AID MEASURES

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediately rinse with water.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 FIRE-FIGHTING MEASURES

- **Extinguishing media**
- **Suitable extinguishing agents:**
Sand. Do not use water.
CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
Water
Water with full jet

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- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

6 ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Avoid contact with skin, eyes and clothes.
- **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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.
- **Protective Action Criteria for Chemicals**
- **PAC-1:**

CAS: 1330-20-7	Xylene, mixed isomers, pure	130 ppm
CAS: 1330-20-7	Xylene, mixed isomers, pure	130 ppm
CAS: 14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³
CAS: 71-36-3	butan-1-ol	60 ppm
CAS: 1185-55-3	trimethoxy(methyl)silane	38 mg/m ³
CAS: 50-00-0	formaldehyde	0.90 ppm
- **PAC-2:**

CAS: 1330-20-7	Xylene, mixed isomers, pure	920* ppm
CAS: 1330-20-7	Xylene, mixed isomers, pure	920* ppm
CAS: 14808-60-7	Quartz (SiO ₂)	33 mg/m ³
CAS: 71-36-3	butan-1-ol	800 ppm
CAS: 1185-55-3	trimethoxy(methyl)silane	410 mg/m ³
CAS: 50-00-0	formaldehyde	14 ppm
- **PAC-3:**

CAS: 1330-20-7	Xylene, mixed isomers, pure	2500* ppm
CAS: 1330-20-7	Xylene, mixed isomers, pure	2500* ppm
CAS: 14808-60-7	Quartz (SiO ₂)	200 mg/m ³
CAS: 71-36-3	butan-1-ol	8000** ppm
CAS: 1185-55-3	trimethoxy(methyl)silane	2,500 mg/m ³
CAS: 50-00-0	formaldehyde	56 ppm

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7 HANDLING AND STORAGE

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Use only in well ventilated areas.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges. Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

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:**
CAS: 1330-20-7 Xylene, mixed isomers, pure
PEL Long-term value: 435 mg/m³, 100 ppm
REL Short-term value: 655 mg/m³, 150 ppm
Long-term value: 435 mg/m³, 100 ppm
TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI
- **Regulatory information**
PEL: Guide to Occupational Exposure Values (OSHA PELs)
REL: Guide to Occupational Exposure Values (NIOSH RELs)
TLV: Guide to Occupational Exposure Values (ACGIH)
- **Ingredients with biological limit values:**
CAS: 1330-20-7 Xylene, mixed isomers, pure
BEI 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids
- **Regulatory information** BEI: Guide to Occupational Exposure Values (BEI)
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the skin.
Avoid close or long term contact with the skin.
Avoid contact with the eyes and skin.

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· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.



Filter A

· **Protection of hands:**



Protective gloves

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.12 mm

· **Penetration time of glove material**

> 480 min.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Use protective suit.

9 PHYSICAL AND CHEMICAL PROPERTIES

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Pasty
Color:	Grey
Odor:	Characteristic
Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 136-145 °C

· **Flash point:** 23 °C (DIN 53213)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 500 °C

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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- **Explosion limits:**
 - Lower: 1 Vol %
 - Upper: 7.1 Vol %
- **Vapor pressure at 20 °C:** 10 hPa
- **Vapour pressure at 50 °C:** 20 hPa
- **Density at 20 °C:** 1.18 g/cm³ (DIN 51757)
- **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 at 20 °C:** 1,600,000 mPas
- **Kinematic:** Not determined.
- **Solvent content:**
 - Organic 39.3 %
 - solvents: VOC 39.33 %
 - content: Solids 58.8 % (DIN 53216)
 - content:
- **Other information** No further relevant information available.
- **VOC (EU):** 39.33 %
- **VOC (EU):** 464.1 g/l
- **VOC (US):** 464.1 g/l / 3.87 lb/gal

10 STABILITY AND REACTIVITY

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon monoxide

11 TOXICOLOGICAL INFORMATION

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
 - ATE (Acute Toxicity Estimate)**
 - Oral LD50 9,103-10,336 mg/kg (RAT)
 - CAS: 1330-20-7 Xylene, mixed isomers, pure**
 - Oral LD50 3,523-4,000 mg/kg (RAT)
 - Dermal LD50 12,126 mg/kg (RABBIT)
 - Inhalative LC50/4 h 6,350 mg/l (RAT)
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** No irritating effect.
 - **Sensitization:** No sensitizing effects known.

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· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

No further relevant information available.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

CAS: 1330-20-7	Xylene, mixed isomers, pure	3
CAS: 9003-55-8	Benzene, ethenyl-, polymer with 1,3-butadiene	3
CAS: 1330-20-7	Xylene, mixed isomers, pure	3
CAS: 14808-60-7	Quartz (SiO ₂)	1
CAS: 100-41-4	Ethylbenzene	2B
CAS: 1333-86-4	Carbon black	2B
CAS: 50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**

Quartz (SiO ₂)	K <1%
formaldehyde	K <1%

· **OSHA-Ca (Occupational Safety & Health Administration)**

CAS: 50-00-0 formaldehyde

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.

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

· **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.
Dispose of as dangerous waste.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

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14 TRANSPORT INFORMATION

· UN-Number UN1263
 · DOT, IMDG, IATA Void
 · ADR/RID/ADN Void according to 2.2.3.1.5
 · ADN Void according to 2.2.3.1.5
 · UN proper shipping name Paint
 · DOT Void
 · ADR/RID/ADN, ADN PAINT
 · IMDG, IATA

· Transport hazard class(es)
 · DOT



· Class 3 Flammable liquids
 · Label 3
 · ADR/RID/ADN, ADN Void
 · Class
 · IMDG, IATA



· Class 3 Flammable liquids
 · Label 3
 · Packing group III
 · DOT, IMDG, IATA Void
 · ADR/RID/ADN

· Environmental hazards:
 · Marine pollutant: No
 · Special precautions for user Not applicable.
 · EMS Number: F-E, S-E
 · Stowage Category A

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information: Transport classification ADR/IMGD is based on packaging >30ltr(IMDG), <450ltr(ADR). For other packaging units different classification can apply.

· DOT On passenger aircraft/rail: 60
 · Quantity limitations L On cargo aircraft only: 220 L

· IMDG
 · Limited quantities (LQ) 5L
 · Excepted quantities (EQ) Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

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· UN "Model Regulation": Void

15 REGULATORY INFORMATION

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):**

formaldehyde	<1%
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- **Section 313 (Specific toxic chemical listings):**

Xylene, mixed isomers, pure	25-<50%
Xylene, mixed isomers, pure	<1%
butan-1-ol	<1%
Ethylbenzene	<1%
formaldehyde	<1%
- **Proposition 65**
- **Chemicals known to cause cancer:**

Quartz (SiO ₂)	<1%
Ethylbenzene	<1%
Carbon black	<1%
formaldehyde	<1%
- **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:**

None of the ingredients is listed.
- **Carcinogenity categories**
- **EPA (Environmental Protection Agency)**

Xylene, mixed isomers, pure		I		25-<50%
Xylene, mixed isomers, pure		I		<1%
butan-1-ol		D		<1%
Ethylbenzene		D		<1%
formaldehyde		B1		<1%
- **TLV (Threshold Limit Value established by ACGIH)**

Xylene, mixed isomers, pure		A4		25-<50%
Xylene, mixed isomers, pure		A4		<1%
Quartz (SiO ₂)		A2		<1%
Ethylbenzene		A3		<1%
Carbon black		A4		<1%
formaldehyde		A2		<1%
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Quartz (SiO ₂)	<1%
Carbon black	<1%
formaldehyde	<1%
- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

Trade Name: IES Sprayable Seam Sealer Gray

· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word Warning

· Hazard-determining components of labeling: Xylene, mixed isomers, pure

· Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 P501 Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department.

· Contact: mail@usseies.com

· Date of preparation / last revision 09/27/2018 / 7

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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Reviewed on 06/19/2018

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STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 · *
Data compared to the previous version altered.