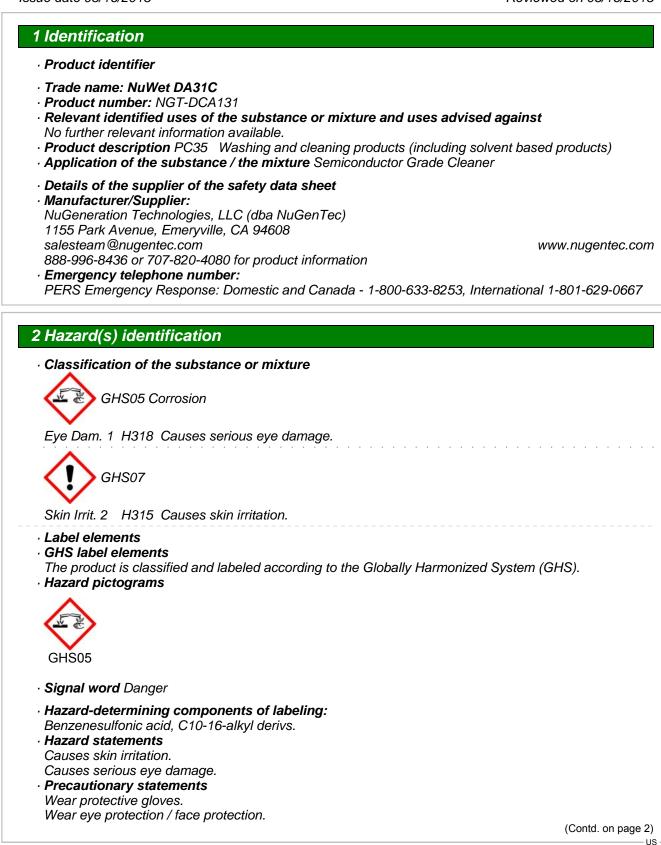


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Wash thoroughly after handling.

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

Immediately call a poison center/doctor.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

If skin irritation occurs: Get medical advice/attention.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

- · Unknown acute toxicity:
- 41.5 percent of the mixture consists of ingredient(s) of unknown toxicity.
- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

· Hazard(s) not otherwise classified (HNOC): None known

CAS: 7732-18-5 RTECS: ZC 0110000	water, distilled, conductivity or of similar purity	40-60%
Chemical characteria Description: Mixture Dangerous Compone	of substances listed below with nonhazardous additions.	
CAS: 77-92-9	Citric Acid	15-35%
	♦ Eye Irrit. 2A, H319	
	Proprietary polymer	15-35%
	Skin Irrit. 2, H315; Eye Irrit. 2B, H320	
CAS: 68584-22-5	Benzenesulfonic acid, C10-16-alkyl derivs.	2-12%

4 First-aid measures

- · Description of first aid measures
- · After inhalation:

In case of unconsciousness, place patient securely on side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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- After swallowing: If swallowed and symptoms occur, consult a 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:
- CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Dispose of the collected material according to regulations.

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** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about protection against explosions and fires: No special measures required.
- · 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: None.
- Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

Control parameters

· Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists that were valid during the creation of this SDS were used as basis.

Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· 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.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

· 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 cannot be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· Eye protection:



Tightly sealed goggles

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General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	Light yellow
Odor: Odor threshold:	Mild Not determined.
pH-value @ 20 °C (68 °F):	2.4
Change in condition Melting point/Melting range: Boiling point/Boiling range:	 100 °C (212 °F)
Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	1010 °C (1850 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	0.0 Vol % 0.0 Vol %
Vapor pressure @ 20 °C (68 °F):	23 hPa (17 mm Hg)
Density @ 20 °C (68 °F):	1.137 g/cm³ (9.488 lbs/gal)
Bulk density: Relative density Vapor density Evaporation rate	9.5 #/gal Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity: Dynamic @ 20 °C (68 °F): Kinematic:	1 mPas Not determined.
Solvent content: Organic solvents: Water:	0.0 % 58.5 %

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10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable under normal conditions.
- 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: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

77-92-9 Citric Acid

Oral LD50 5040 mg/kg (mouse)

5400 mg/kg (rat)

Dermal LD50 >2000 mg/kg (rat)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the c

Strong irritant with the danger of severe eye injury. Causes serious eye irritation.

Additional toxicological information:

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

Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

· NTP (National Toxicology Program)

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

· Toxicity

Aquatic toxicity:

68584-22-5 Benzenesulfonic acid, C10-16-alkyl derivs.

EC50 2-3 mg/l (daphnia) (48 Hr)

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- · 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:

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: Recycle or dispose with household trash.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number · DOT, ADR, IMDG, IATA	Non-Regulated Material
· UN proper shipping name · ADR	Non-Regulated Material
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA · Class	
· Packing group · DOT, ADR, IMDG, IATA	Non-Regulated Material
· Environmental hazards:	Not applicable.
 Special precautions for user Poison inhalation hazard: 	Not applicable. No
 Transport in bulk according to Annex I MARPOL73/78 and the IBC Code 	l of Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: 5L On cargo aircraft only: 1100L
· Remarks:	Cleaning Compound, n.o.b.i.n. Non-Hazardous materi



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· UN "Model Regulation":

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara N/A

· Section 355 (extremely	hazardous	substances):
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None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

- All ingredients are listed.
- · California Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

· GHS label elements

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





- · Signal word Danger
- Hazard-determining components of labeling: Benzenesulfonic acid, C10-16-alkyl derivs.

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Hazard statements		
Causes skin irritation.		
Causes serious eye da		
Precautionary staten		
Wear protective glove		
Wear eye protection /		
Wash thoroughly after		
	ously with water for several minutes. Remove contact lense	s, if present and eas
to do. Continue rinsing		
Immediately call a pois		0.0tl
	e supplementary first aid instructions on this Safety Data Sh : Get medical advice/attention.	eel).
If on skin: Wash with p		
Take off contaminated	I clothing and wash it before reuse.	
Take off contaminated	l clothing and wash it before reuse.	the regulations or
Take off contaminated	l clothing and wash it before reuse. : act to be classified according with the latest version of	the regulations or
Take off contaminated National regulations The product is subje hazardous substances	l clothing and wash it before reuse. : act to be classified according with the latest version of	the regulations or
Take off contaminated National regulations The product is subje hazardous substances State Right to Know	l clothing and wash it before reuse. : ect to be classified according with the latest version of s.	
Take off contaminated National regulations The product is subje hazardous substances	l clothing and wash it before reuse. : act to be classified according with the latest version of	
Take off contaminated National regulations: The product is subjective hazardous substances State Right to Know CAS: 7732-18-5	l clothing and wash it before reuse. : ect to be classified according with the latest version of s.	40-60%
Take off contaminated National regulations: The product is subjective hazardous substances State Right to Know CAS: 7732-18-5 RTECS: ZC 0110000 CAS: 77-92-9	I clothing and wash it before reuse. ect to be classified according with the latest version of s. water, distilled, conductivity or of similar purity Citric Acid	40-60%
Take off contaminated National regulations: The product is subjective hazardous substances State Right to Know CAS: 7732-18-5 RTECS: ZC 0110000 CAS: 77-92-9	I clothing and wash it before reuse. ect to be classified according with the latest version of s. water, distilled, conductivity or of similar purity Citric Acid ① Eye Irrit. 2A, H319	40-60%
Take off contaminated National regulations: The product is subjective hazardous substances State Right to Know CAS: 7732-18-5 RTECS: ZC 0110000 CAS: 77-92-9	I clothing and wash it before reuse. Exect to be classified according with the latest version of s. water, distilled, conductivity or of similar purity Citric Acid © Eye Irrit. 2A, H319 Proprietary polymer	40-60%
Take off contaminated National regulations: The product is subjective hazardous substances State Right to Know CAS: 7732-18-5 RTECS: ZC 0110000 CAS: 77-92-9	I clothing and wash it before reuse. ect to be classified according with the latest version of s. water, distilled, conductivity or of similar purity Citric Acid ① Eye Irrit. 2A, H319	40-60%

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

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision 05/16/2015 / 9

· Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways 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) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1	
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A	
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B	
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B • * Data compared to the previous version altered.	