

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

1 Identification

- · Product Identifier
- · Trade name: CitraKlean Clear
- · Product Number: ng-CKC
- Relevant identified uses of the substance or mixture and uses advised against:

Use as directed by manufacturer.

· Product Description

CitraKlean Clear is a natural liquid cleaner, formulated with the natural solvent derived from orange peels, that offers environmental compatibility, user safety and low cost for disposal for heavy duty cleaning of all surfaces. An excellent cleaner for tenacious oils and grease and a great replacement for toxic petroleum solvents, chlorinated solvents, and caustics. Cleans dirt, oils, fingerprints, grease, glues, gums, tar, polishing and buffing compounds, drawing compounds, wax, tacky residues, labels, inks and adhesives from any washable surface.

- · Application of the substance / the mixture: Industry-specific application.
- · Details of the Supplier of the Safety Data Sheet:
- · Manufacturer/Supplier:

NuGeneration Technologies, LLC (dba NuGenTec) 1155 Park Avenue, Emeryville, CA 94608 salesteam@nugentec.com

www.nugentec.com

1-888-996-8436 or 1-707-820-4080 for product information

· Emergency telephone number:

PERS Emergency Response: Domestic and Canada - 1-800-633-8253, International 1-801-629-0667

2 Hazard(s) Identification

· Classification of the substance or mixture:



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements:
- · GHS label elements

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

· Hazard pictograms:



GHS07

· Signal word: Warning

· Hazard-determining components of labeling:

Proprietary Solvent

· Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

(Contd. on page 2)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

· Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data

Sheet).

P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· Unknown acute toxicity:

5 % of the mixture consists of component(s) of unknown toxicity.

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



Health = 1 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 1Fire = 0

 $\mathbf{Y} \mathbf{0} \mathbf{0}$ Physical Hazard = 0

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

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

 Proprietary Solvent	5%
Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🕠 Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	
Proprietary Surfactant	5%
♦ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	
Proprietary Surfactant	5%
Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Acute 2, H401; Aquatic Chronic 3, H412	

(Contd. on page 3)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

	Proprietary Hydrotrope	3.2%
	♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
CAS: 141-43-5	Monoethanolamine	≤2.5%
RTECS: KJ 5775000	Skin Corr. 1B, H314;	

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- · Description of first aid measures:
- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or a rash occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting without medical advice.

If vomiting does occur, repeat fluid administration

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.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters:
- · Protective equipment:

Mouth respiratory protective device.

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: Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

Ensure adequate ventilation.

· Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

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: Store in the original container.
- · 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 section 7.
- · Control parameters:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

· Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

Proprietary Solvent

TWA Short-term value: 10 mg/m3

141-43-5 Monoethanolamine

PEL Long-term value: 6 mg/m³, 3 ppm

(Contd. on page 5)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

REL Short-term value: 15 mg/m³, 6 ppm Long-term value: 8 mg/m³, 3 ppm

TLV Short-term value: 15 mg/m³, 6 ppm Long-term value: 7.5 mg/m³, 3 ppm

- · 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 eyes and skin.

- · Breathing equipment: Not required.
- · 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

Body protection:



Protective work clothing

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Safety Data Sheet (SDS)
OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

nformation on basic physical and General Information	chemical properties
Appearance:	
Form:	Liquid
Color: Odor:	Clear amber Citrus, reminding of orange peel
Odor. Odor threshold:	Not determined.
oH-value @ 20 °C (68 °F):	10.5
Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	95 °C (203 °F)
Flammability (solid, gaseous):	Not applicable.
gnition temperature:	255 °C (491 °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:	0.0 Vol %
Upper:	6.1 Vol %
Vapor pressure @ 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density @ 20 °C (68 °F):	1.012 g/cm³ (8.445 lbs/gal)
Relative density:	Not determined.
Vapor density: Evaporation rate:	Not determined. Not determined.
Solubility in / Miscibility with:	rect docommod.
Water:	Fully miscible.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic @ 20 °C (68 °F):	2 mPas
Kinematic:	Not determined.
Solvent content:	6.0.9/
Organic solvents: Water:	6.0 % 71.3 %
VOC content:	6.0 %
Solids content:	8.2 %
Other information:	No further relevant information available.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

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:

Acute	Oxicity	•
LD/LC5	0 valu	es that are relevant for classification:
Proprie	tary S	olvent
Oral	LD50	4400 mg/kg (Rat) Remarks: Behavioral: Change in motor activity (specific assay). Respiratory disorder Skin and Appendages: Other: Hair
Dermal	LD50	>5000 mg/kg (Rabbit)
Proprie	tary S	urfactant
Oral	LD50	2000-5000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rat)
Proprie	tary H	ydrotrope
Oral	LD50	>7,200 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)
141-43-	5 Mon	oethanolamine
Oral	LD50	2050 mg/kg (Rat)

Primary irritant effect:

· On the skin:

Irritant to skin and mucous membranes.

May cause an allergic skin reaction.

Dermal LD50 1000 mg/kg (Rabbit)

- · On the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:

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

Harmful Irritant

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

(Contd. on page 8)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

Proprietary Solvent

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

12 Ecological Information

None of the ingredients are listed.

- · Toxicity:
- Aquatic toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Proprietary Solvent

EC50 0.36 mg/l (Daphnia) (OECD Test Guideline 202)

- · 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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · 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.

Poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- 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.

Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packagings
- · Recommendation:

Dispose of as unused product.

Disposal must be made according to official regulations.

(Contd. on page 9)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

· Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information	
· UN-Number: · DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
· UN proper shipping name: · DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
· Transport hazard class(es):	
· DOT, ADR/ADN, ADN, IMDG, IATA · Class:	Non-Regulated Material
· Packing group: · DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material
· Environmental hazards:	Not applicable.
· Special precautions for user:	Not applicable.
· Transport in bulk according to Annex I MARPOL73/78 and the IBC Code:	II of Not applicable.
· UN "Model Regulation":	Non-Regulated Material

15 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA	(Toxic S	Substances	Control	Act)	-
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	Proprietary Solvent
	Proprietary Solvent
	Proprietary Surfactant
	Proprietary Surfactant
	Proprietary Hydrotrope
	Proprietary Salt
141-43-5	Monoethanolamine
7732-18-5	Water, distilled water, deionized water

· California Proposition 65:

· Chemicals known to cause cancer:

None of the ingredients are listed.

(Contd. on page 10)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

· 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.

· New Jersey Right-to-Know List:

141-43-5 Monoethanolamine

· New Jersey Special Hazardous Substance List:

141-43-5 Monoethanolamine

CO, F2

· Pennsylvania Right-to-Know List:

141-43-5 Monoethanolamine

· Pennsylvania Special Hazardous Substance List:

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).

· Hazard pictograms:



GHS07

· Signal word: Warning

· Hazard-determining components of labeling:

Proprietary Solvent

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

· Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 If on skin: Wash with plenty of water.

(Contd. on page 11)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data

Sheet).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

· National regulations:

None of the ingredients are listed.

· 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: 09/20/2017 / -

· 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)

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 and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 4: Flammable liquids - Category 4

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

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

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B

Skin Sens. 1: Skin sensitisation - Category 1

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

(Contd. on page 12)





Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/20/2017 Reviewed on 09/20/2017

Trade name: CitraKlean Clear

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106