

Safety Data Sheet (SDS)

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

Issue date 07/09/2018

Reviewed on 07/09/2018

1 Identification

- **Product Identifier**
- **Trade Name:** Flexcolors Standard Screen Ink White
- **Product Number:** 5005, 5007, 5009
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Product Description:** Screen Ink
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Dischem International, Inc.
4252 Strausser Street N.W.
North Canton, OH 44720 U.S.A.
Phone: (330) 494-5210
Fax: (330) 494-1305
- **Emergency telephone number:**
INFOTRAC (24 Hours)
1-352-323-3500 (International)
1-800-535-5053 (North America)

2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **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:** Danger
- **Hazard-determining components of labeling:**
Distillates (petroleum), hydrotreated light

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Trade Name: Flexcolors Standard Screen Ink White**Hazard statements:**

- H226 Flammable liquid and vapor.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H304 May be fatal if swallowed and enters airways.

Precautionary statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P331 Do NOT induce vomiting.
- P302+P352 If on skin: Wash with plenty of water.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a poison center/doctor if you feel unwell.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme**NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 2
Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
FIRE	2	Fire = 2
REACTIVITY	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.

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· Dangerous Components:		
64742-47-8	Distillates (petroleum), hydrotreated light ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H336	70-90%
13463-67-7	Titanium Dioxide ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	2-12%

· 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: Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

· After skin contact:

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

· After eye contact:

If easy to do so, remove contact lenses if worn.
Rinse opened eye for several minutes under running water.
If eye irritation occurs, consult a doctor.

· After swallowing:

Rinse mouth.
Do not induce vomiting.
If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs (aspiration). Once the vomiting ceases, place the person in the recovery position with the legs slightly raised.
Call a doctor immediately.

· Information for doctor**· Most important symptoms and effects, both acute and delayed:**

Direct contact with eyes may cause temporary irritation. Aspiration may occur during swallowing or vomiting and cause lung damage. In high concentrations, vapors and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

· Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

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:

Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Combustible liquid. Vapors can travel to a source of ignition and flash back.
Explosive mixtures may occur at temperatures at or above flashpoint.

· Advice for firefighters**· Special protective equipment for firefighters:**

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.

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6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
- **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:**

13463-67-7	Titanium Dioxide	30 mg/m ³
7631-86-9	Amorphous Silica	18 mg/m ³
21645-51-2	Aluminium Hydroxide	8.7 mg/m ³

- **PAC-2:**

13463-67-7	Titanium Dioxide	330 mg/m ³
7631-86-9	Amorphous Silica	740 mg/m ³
21645-51-2	Aluminium Hydroxide	73 mg/m ³

- **PAC-3:**

13463-67-7	Titanium Dioxide	2,000 mg/m ³
7631-86-9	Amorphous Silica	4,500 mg/m ³
21645-51-2	Aluminium Hydroxide	440 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Wear protective equipment.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Ground containers during storage and transfer operations.
Protect against electrostatic charges.
Do not cut, grind or weld on container that contains or contained product.
- **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:** See Section 10 (Incompatible materials)
- **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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

64742-47-8 Distillates (petroleum), hydrotreated light	
OSHA PEL	Long-term value: 5 mg/m ³

- | | |
|----------|--------------------------------------|
| OSHA PEL | Long-term value: 5 mg/m ³ |
|----------|--------------------------------------|
- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
 - **Exposure controls:**
Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Where acceptable concentrations cannot be maintained by general mechanical ventilation, local exhaust ventilation is recommended.
 - **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.
Store protective clothing separately.
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:**



Safety glasses with side shields

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Trade Name: Flexcolors Standard Screen Ink White**· Body protection:**

Protective work clothing

· Limitation and supervision of exposure into the environment:

Keep away from drains, surface and ground waters.
Avoid release into the environment.

9 Physical and Chemical Properties**· Information on basic physical and chemical properties****· General Information****· Appearance:****Form:**

Liquid

Color:

White

· Odour:

Not determined

· Odor threshold:

Not determined.

· pH-value:

Not applicable.

· Change in condition**Melting point/Melting range:**

Not determined.

Boiling point/Boiling range:

151-181 °C (303.8-357.8 °F)

· Flash point:

40.5 °C (104.9 °F)

· Flammability (solid, gaseous):

Not applicable.

· Ignition temperature:

250 °C (482 °F)

· Decomposition temperature:

Not determined.

· Auto igniting:

Product is not self-igniting.

· Danger of explosion:

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:**Lower:**

1.3 Vol %

Upper:

10.2 Vol %

· Vapor pressure @ 20 °C (68 °F):

17.994 mm Hg

· Density @ 20 °C (68 °F):0.83-0.95 g/cm³ (6.9264-7.9278 lbs/gal)**· Relative density:**

Not determined.

· Vapor density @ 20 °C (68 °F):

>3.80 (Air=1)

· Evaporation rate:

Not determined.

· Solubility in / Miscibility with:**Water:**

<0.1%

· Partition coefficient (n-octanol/water): Not determined.**· Viscosity:****Dynamic:**

Not determined.

Kinematic:

Not determined.

· Solvent content:**Organic solvents:**

70-80 %

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- VOC content:** 70-80 %
- Other information:** No further relevant information available.

10 Stability and Reactivity

- Reactivity:** No further relevant information available.
- Chemical stability:** Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:** Carbon oxides. Nitrogen oxides, Sulfur oxides.
- Possibility of hazardous reactions:** No dangerous reactions known.
- Conditions to avoid:** Heat, flame and ignition sources.
- Incompatible materials:** Strong oxidizing agents.
- 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:**

64742-47-8 Distillates (petroleum), hydrotreated light

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

13463-67-7 Titanium Dioxide

Oral	LD50	>10,000 mg/kg (Rat)
Dermal	LD50	>10,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (Rat)

- Primary irritant effect:**
- On the skin:** Irritant to skin and mucous membranes.
- On the eye:** Irritating effect.
- Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
Carcinogenic
- Carcinogenic categories:**
- IARC (International Agency for Research on Cancer):**
Although IARC has classified Titanium Dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to Titanium Dioxide is thought to occur during the use of products which Titanium Dioxide is bound to other materials, such as in cosmetics, paints and inks."

13463-67-7	Titanium Dioxide	2B
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- 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:**
Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

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64742-47-8 Distillates (petroleum), hydrotreated light
EC50 25 mg/l (Trout) (OECD Test Guideline 203, 96 hour, Static Test)
13463-67-7 Titanium Dioxide
EC50 >1,000 mg/l (Water flea)

- **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.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
- **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 packaging**
- **Recommendation:** Disposal must be made according to official regulations.

***14 Transport Information**

- **UN-Number:** UN1210
- **DOT, ADR/ADN, IMDG, IATA**
- **UN proper shipping name:** Printing ink
- **DOT** UN1210 Printing ink ENVIRONMENTALLY HAZARDOUS
- **ADR/ADN** PRINTING INK, MARINE POLLUTANT
- **IMDG** PRINTING INK
- **IATA**
- **Transport hazard class(es):**
- **DOT** In non-bulk packages, this product is not regulated for ground transportation in accordance with 49 CFR 173.150(f). For domestic air shipments, the basic description below should be used.
- **Class:** 3 Flammable liquids Flammable liquids
- **Label:** 3 (if shipped by air only)
- **ADR/ADN** Not subject to ADR per paragraph 2.2.3.1.5 and 2.2.3.1.5.2
- **Class:** 3 Flammable liquids Flammable liquids
- **Label:** 3 (if shipped by air only)
- **IMDG** This material meets the requirements of 2.3.2.5 and of the IMDG code, so it is not required to be marked or labeled as a

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	dangerous good. The statement "Transport in accordance with 2.3.2.5 of the IMDG Code." must be included in the transport document.
· Class:	3 Flammable liquids Flammable liquids
· Label:	3 (if shipped by air only)
<hr/>	
· IATA	
· Class:	3 Flammable liquids Flammable liquids
· Packing group:	
· DOT, ADR/ADN, IMDG, IATA	III
· Environmental hazards:	Not applicable.
· Special precautions for user:	Warning: Flammable liquids
· Danger code (Kemler):	30
· EMS Number:	F-E,S-D
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
· Transport/Additional information:	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<hr/>	
· DOT	
· Quantity limitations:	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
<hr/>	
· ADR/ADN	
· Excepted quantities (EQ):	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<hr/>	
· 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
· UN "Model Regulation":	UN 1210 PRINTING INK, 3, III, ENVIRONMENTALLY HAZARDOUS

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 Substances Control Act):

All ingredients are listed or exempt from listing.
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· California Proposition 65:

· Chemicals known to cause cancer:

None of the ingredients are listed.

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· 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:		
13463-67-7	Titanium Dioxide	
· New Jersey Special Hazardous Substance List:		
None of the ingredients are listed.		
· Pennsylvania Right-to-Know List:		
13463-67-7	Titanium Dioxide	
7631-86-9	Amorphous Silica	
· 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):		
13463-67-7	Titanium Dioxide	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health):		
13463-67-7	Titanium Dioxide	

· **GHS label elements**

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

· **Hazard pictograms:**



GHS02 GHS07 GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Distillates (petroleum), hydrotreated light

· **Hazard statements:**

H226 Flammable liquid and vapor.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

· **Precautionary statements:**

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

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P331	Do NOT induce vomiting.
P302+P352	If on skin: Wash with plenty of water.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: CO ₂ , powder or water spray.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
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**

TESTS PASSED:

EU:

EN71-3:2013+A2:2017:, migration of certain elements
 Annex XVII 51 & 52: Phthalates content of REACH (EC)No.1907/2006 and Commission Regulation(EC) No.552/2009 & (EU) 2015/326
 Annex XVII 23: Total Cadmium content- Annex XVII Item 23 of REACH Regulation (EC)No.1907/2006 and Commission Regulation (EC)No.552/2009 & (EU) No. 494/2011 & (EU) No.835/2012 & (EU) 2016/217
 Polycyclic Aromatic Hydrocarbons (PAHs)- AfPS GS 2014: 01PAK, Category 1

US:

CPSIA Total Lead
 CPSIA Phthalates
 ASTM F963 -11: Soluble Heavy Metals
 California Proposition 65- Lead, BBP, DBP, DEHP, DnHP, DINP, DIDP

Canada:

Toy Regulations in Surface Coating (SOR/2011-17, SOR/2016-195 and SOR/2016-302)
 Leachable Metals in Surface Coatings (SOR/2016-193) under Canada Consumer Product Safety Act
 Total Lead in accessible parts (SOR/2010-273 and SOR/2016-171)
 Phthalates Regulations (SOR/2016-188)

Australia/ New Zealand:

AS/NZS ISO 8124-3:2012+A1:2016 migration of certain elements
 Phthalates Regulation

China:

GB6675.4-2014, migration of certain elements

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· **Date of preparation / last revision:** 07/09/2018 / 10

· **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. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**

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