



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	FLEETCOOL DCA-2 LIQUID
Other means of identification	
MSDS number	LT16572
Product code	DCA 30L (1 Pint / 470 mL); DCA 35L (64 ounce / 1.89 L); DCA 40L (1 gallon / 3.785 L); DCA 45L (5 gallon / 18.9 L Pail); DCA 50L (55 gallon / 208 L Drum)
Product use	Additive for low silicate antifreeze.
Chemical family	Mixture of: Water; Sodium salts
Manufacturer	
Company name	Cummins Filtration
Address	1200 Fleetguard Road Cookeville, TN, U.S.A. 38506
Telephone	(931) 526 9551
Website	www.cumminsfiltration.com
E-Mail	fleetmaster.us@cummins.com
Supplier information	Refer to Manufacturer
Emergency phone number	Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

2. Hazard(s) Identification

Emergency overview	Blue liquid. Little or no odour. DANGER! Contains a strong oxidizer. Contact with combustible material may cause fire. May be harmful or fatal if swallowed. May be harmful if inhaled. May cause respiratory irritation. May cause severe irritation to the mouth, throat and stomach. Possible severe eye irritation and tissue damage. May cause skin irritation. Contains material which may cause adverse blood system effects. Repeated or prolonged exposure may result in kidney effects. Possible reproductive hazard. Contains material that may cause adverse reproductive effects, based on animal data.
Potential health effects	
Routes of exposure	
Routes of entry skin & eye	YES
Routes of entry skin absorption	YES
Routes of entry inhalation	YES
Routes of entry ingestion	YES
Target organs	Eyes, skin, respiratory system, central nervous system, blood system, liver, brain and kidneys.
Chronic effects	Chronic skin contact with low concentrations may cause dermatitis. Repeated or prolonged overexposure may cause anemia and kidney effects.
Most important symptoms/effects, acute and delayed	Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Direct eye contact may produce severe irritation with possible eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. May cause irreversible eye damage. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May be harmful or fatal if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations and bleeding. May result in unconsciousness and possibly death. May damage fertility or the unborn child. Contains chemicals that may cause male reproductive toxicity and developmental toxicity. This product contains: Sodium tetraborate. Repeated or prolonged overexposure may cause anemia and kidney effects.

Contains: Sodium nitrite; Sodium nitrate. Ingestion of large amounts of nitrites or nitrates may affect oxygen transport in the blood and blood system, causing methemoglobinemia. Methemoglobinemia, characterized by blue-black coloration of the lips, tongue, and the mucous membranes, with the skin becoming slate gray in color.

Potential environmental effects Harmful to aquatic life with long lasting effects. Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

3. Composition/information on ingredients

Mixture

Chemical name	CAS #	Percent
Sodium nitrite	7632-00-0	3.0 - 6.0
Disodium tetraborate, anhydrous	1330-43-4	3.0 - 6.0
Sodium nitrate	7631-99-4	1.0 - 5.0
Sodium metasilicate	6834-92-0	1.0 - 3.0
Sodium 2-mercaptobenzothiazole	2492-26-4	0.1 - 1.0
Sodium tolytriazole	64665-57-2	0.1 - 0.5

4. First Aid Measures

First aid procedures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stopped, begin artificial respiration. Get medical attention.
Skin contact	Immediately flush skin with running water for at least 15 minutes, while removing contaminated clothing. Get medical attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with running water for at least 20 minutes. Seek immediate medical attention/advice.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to a person who is unconscious or is having convulsions Get medical attention immediately.

Notes to physician Immediate medical attention is required. Causes serious eye damage. Provide general supportive measures and treat symptomatically.

General Information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing media	Use water spray to fight fires.
Unsuitable extinguishing media	Use chemical extinguishing agents with caution. Some chemical extinguishing agents may react with this material.

Protection of firefighters

Specific hazards arising from the chemical The pressure in sealed containers can increase under the influence of heat.

Protective equipment for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Fire fighting equipment/instructions Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.



MATERIAL SAFETY DATA SHEET

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

Explosion data

Sensitivity to static discharge Not expected to be sensitive to static discharge.

Sensitivity to mechanical impact Not expected to be sensitive to mechanical impact.

Hazardous combustion products Nitrogen oxides (NOx); Sodium oxides; Oxygen; Boron and compounds; Carbon oxides; Silicon oxides.

General fire hazards Not classified as flammable. However, substance may be considered a strong oxidizer. This product contains Sodium nitrite / Sodium nitrate, which enhance the burning rate of other materials. Contact with combustible material may cause fire.

6. Accidental Release Measures

Personal precautions Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Wear appropriate protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions Prevent product from entering drains, sewers, waterways and soil.

Methods and materials for containment and cleaning up Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. For spilled liquids: absorb spill with inert, non-combustible material such as sand, then place into suitable containers. Pick up and transfer to properly labelled containers. Contaminated absorbent material may pose the same hazards as the spilled product. For large spills on surfaces other than pavement (e.g. soil or sand), spills may be handled by digging up and removing the affected surface and placing it in approved containers. Contact the proper local authorities.

Do not use combustible absorbents, such as sawdust.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and direct flame. Keep away from incompatibles. Keep away from combustible material. Keep containers tightly closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Storage Store in cool/well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Do not store near any incompatible materials (see Section 10).

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

	Type	Value
Disodium tetraborate, anhydrous (CAS 1330-43-4)	STEL	6 mg/m ³ (inhalable fraction, listed under Borate compounds, inorganic)
	TWA	2 mg/m ³ (inhalable fraction, listed under Borate compounds, inorganic)

Biological limit values

No biological exposure limits noted for the ingredient(s).



MATERIAL SAFETY DATA SHEET

Engineering controls

Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Personal protective equipment

Eye / face protection

Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.

Skin protection

Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear a chemically resistant apron and long sleeves when dispensing, to prevent skin contact.

Respiratory protection

If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Hand protection

Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Thin liquid.

Colour

blue

Odour

Little or no odour.

Odour threshold

N/Av

pH

11.3 - 12

Melting point /freezing point

N/Av

Initial boiling point and boiling range

100°C (212°F)

Flash point

111°C (232°F)

Cleveland Open Cup

Evaporation rate

N/Av

Flammability (solid, gas)

Not applicable.

Lower flammability/explosive limit

N/Av

Upper flammability/explosive limit

N/Av

Vapour pressure

760 mmHg @ 100°C (212°F)

Vapour density

N/Av

Relative density

1.14 - 1.16

Solubility(ies)

Other solubility(ies)

N/Av

Solubility (water)

Complete

Partition coefficient (n-octanol/water)

N/Av

Auto-ignition temperature

N/Av

Decomposition temperature

N/Av

Viscosity

N/Av

Other information

Explosive properties

Not explosive

Oxidizing properties

This product was tested in accordance with Test O.2 - Test for Oxidizing liquids, in accordance with the UN Manual on Tests and Criteria. At a 1:1 ratio of sample/cellulose (2.5 g of the liquid and 2.5 g of dried cellulose) tested, the maximum pressure rise was < 2070 kPa (300 psi) or the pressure rise time was > the mean pressure rise time for the PGIII reference standard. The material is therefore, not considered to be an oxidizing liquid.



MATERIAL SAFETY DATA SHEET

Specific gravity 1.14 - 1.16
VOC N/Av
Volatilities % N/Av
Other physical/chemical data Alkali reserve: 1.525 g NaOH

10. Stability and reactivity

Reactivity Not normally reactive. However, substance may be considered a strong oxidizer. Contact with combustible material may cause fire.
Chemical stability Stable under the recommended storage and handling conditions prescribed.
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.
Conditions to avoid Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.
Incompatible materials Strong acids, strong oxidizing agent (e.g. Chlorides, peroxides), reducing agents (e.g. cyanides, metal hydrides). Avoid organic materials. Combustible material.
Hazardous decomposition products None known, refer to hazardous combustion products in Section 5.

11. Toxicological information

Toxicological data

Components	Species	Test Results
Sodium nitrite		
Acute		
<i>Dermal</i>		
LD50	Rabbit	N/Av
<i>Inhalation</i>		
LC50	Rat	5.5 mg/L (dust)
<i>Oral</i>		
LD50	Rat	180 mg/kg
Disodium tetraborate, anhydrous		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg (No mortality)
<i>Inhalation</i>		
LC50	Rat	> 2.04 mg/L (dust) (No mortality)
<i>Oral</i>		
LD50	Rat	3225 - 5560 mg/kg
Sodium nitrate		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Inhalation</i>		
LC50	Rat	N/Av
<i>Oral</i>		
LD50	Rat	1267 mg/kg
Sodium metasilicate		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg (No mortality)
<i>Inhalation</i>		
LC50	Rat	> 2.06 mg/L (mist) (No mortality)

<i>Oral</i>			
LD50	Rat		1152 - 1349 mg/kg
Sodium 2-mercaptobenzothiazole			
Acute			
<i>Dermal</i>			
LD50	Rabbit		> 7940 mg/kg
<i>inhalation</i>			
LC50	Rat		N/Av
<i>Oral</i>			
LD50	Rat		2100 mg/kg
Sodium tolytriazole			
Acute			
<i>Dermal</i>			
LD50	Rabbit		> 2000 mg/kg (No mortality)
<i>inhalation</i>			
LC50	Rat		N/Av
<i>Oral</i>			
LD50	Rat		735 - 1980 mg/kg (50% solution)

Acute effects

Causes skin irritation. Causes serious eye damage. Severe respiratory irritant. May cause severe irritation and corrosive damage in the mouth, throat and stomach. See data above for individual ingredient acute toxicity data.

Senitization

Not expected to be a skin or respiratory sensitizer.

Chronic effects

Chronic skin contact with low concentrations may cause dermatitis. Repeated or prolonged overexposure may cause anemia and kidney effects.

Carcinogenicity

Not known to be carcinogenic.
No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Skin corrosion/irritation

May cause moderate skin irritation.

Serious eye damage/irritation

Causes eye damage.

Mutagenicity

Contains no ingredient above reportable levels that is known to cause mutations in reproductive (germ) and/or non-reproductive cells (somatic).

Reproductive effects

May damage fertility or the unborn child. Contains: Disodium tetraborate, anhydrous. The data regarding subchronic and chronic oral exposure to boric acid or borax (Disodium tetraborate, anhydrous) in laboratory animals have demonstrated reproductive toxicity. Available animal data indicates that this substance has toxic effects on the male reproductive tract. Testicular lesions have been observed in rats, mice, and dogs administered boric acid or borax in food or drinking-water (INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY Environmental Health Criteria document # 204).

Teratogenicity

Contains: Disodium tetraborate, anhydrous. Sodium tetraborate has been investigated as a developmental hazard.

Most important symptoms/effects, acute and delayed

Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Direct eye contact may produce severe irritation with possible eye damage. Symptoms may include severe pain, tearing, redness, swelling and blurred vision. May cause irreversible eye damage. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May be harmful or fatal if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations and bleeding. May result in unconsciousness and possibly death. May damage fertility or the unborn child. Contains chemicals that may cause male reproductive toxicity and developmental toxicity. This product contains: Sodium tetraborate. Repeated or prolonged overexposure may cause anemia and kidney effects.

MATERIAL SAFETY DATA SHEET

Contains: Sodium nitrite; Sodium nitrate. Ingestion of large amounts of nitrites or nitrates may affect oxygen transport in the blood and blood system, causing methemoglobinemia. Methemoglobinemia, characterized by blue-black coloration of the lips, tongue, and the mucous membranes, with the skin becoming slate gray in color.

Further information

None known or reported by the manufacturer.

12. Ecological information

Ecotoxicity data:				
Components	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Sodium nitrite	7632-00-0	0.54 mg/L (Rainbow trout)	N/Av	1
Disodium tetraborate, anhydrous	1330-43-4	79.7 mg/L (Fathead minnow) (Read-across)	6.4 mg/L/34 days (Zebra fish) (Read-across)	None.
Sodium nitrate	7631-99-4	1685 mg/L (Rainbow trout)	97.8 mg/L (Ocellaris clownfish)	None.
Sodium metasilicate	6834-92-0	260 - 310 mg/L (Rainbow trout)	N/Av	None.
Sodium 2-mercaptobenzothiazole	2492-26-4	0.73 mg/L (Rainbow trout)	N/Av	1
Sodium tolytriazole	64665-57-2	25 mg/L (Rainbow trout)	N/Av	None.

Components	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Sodium nitrite	7632-00-0	15.4 mg/L (Daphnia magna)	N/Av	None.
Disodium tetraborate, anhydrous	1330-43-4	91 mg/L Ceriodaphnia (water flea)	10.8 mg/L (Read-across)	None.
Sodium nitrate	7631-99-4	3581 mg/L (Daphnia magna)	N/Av	None.
Sodium metasilicate	6834-92-0	1700 mg/L (Daphnia magna)	N/Av	None.
Sodium 2-mercaptobenzothiazole	2492-26-4	19 mg/L (Daphnia magna)	0.08 mg/L (Read-across)	1
Sodium tolytriazole	64665-57-2	280 mg/L (Daphnia magna)	18.4 mg/L	None.

Components	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Sodium nitrite	7632-00-0	≥ 100 mg/L/72hr (Green algae)	100 mg/L/72hr	None.
Disodium tetraborate, anhydrous	1330-43-4	52.4 mg/L/72hr (Green algae) (Read-across)	17.5 mg/L/72hr (Read-across)	None.
Sodium nitrate	7631-99-4	N/Av	N/Av	None.
Sodium metasilicate	6834-92-0	> 345 mg/L/72hr (Green algae)	160 mg/L/72hr	None.
Sodium 2-mercaptobenzothiazole	2492-26-4	0.4 mg/L/72hr (Green algae)	0.066 mg/L/72hr (Read-across)	1
Sodium tolytriazole	64665-57-2	26.2 mg/L/72hr (Green algae)	10 mg/L/72hr	None.

Ecotoxicity

Harmful to aquatic life with long lasting effects. The product contains the following substances which are hazardous for the environment: Sodium nitrite; Sodium mercaptobenzothiazole.

See above for individual ingredient ecotoxicity data.



MATERIAL SAFETY DATA SHEET

Environmental effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Aquatic toxicity

No data is available on the product itself.

Persistence and degradability

No data is available on the product itself.

Contains the following chemicals which are not readily biodegradable: Sodium tetraborate; Sodium metasilicate; Sodium mercaptobenzothiazole; Sodium tolyltriazole.

The following ingredients are considered to be readily biodegradable: sodium nitrite; Sodium nitrate.

Note: Although Sodium nitrite and Sodium nitrate are inorganic materials, in the environment, bacteria oxidise nitrites to nitrates to Nitrogen. Nitrates and nitrites are reduced to nitrogen by and are therefore considered rapidly degradable.

Bioaccumulation / accumulation

No data is available on the product itself. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Sodium nitrite (CAS 7632-00-0)	- 3.7	3.162
Disodium tetraborate, anhydrous (CAS 1330-43-4)	N/Av	121 (algea)
Sodium nitrate (CAS 7631-99-4)	- 0.79	N/Av
Sodium 2-mercaptobenzothiazole (CAS 2492-26-4)	- 0.46	< 8 (common carp)
Sodium tolyltriazole (CAS 64665-57-2)	1.083	N/Av

Mobility in soil

The product itself has not been tested.

13. Disposal consideration

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with local regulations.

Waste from residues / unused products

Dispose in accordance with all applicable federal, provincial, state and local regulations.

Contaminated packaging

Empty containers should be taken for local recycling or waste disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

TDG

Not regulated as dangerous goods

ICAO/IATA

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

General information

Appropriate advice on safety must accompany the package.

This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

15. Regulatory information



MATERIAL SAFETY DATA SHEET

Canadian regulations

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

WHMIS status

Controlled

WHMIS classification

Class C (Oxidizing Material)
Class D1B (Materials Causing Immediate and Serious Toxic Effects, Toxic Material)
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material)
Class D2B (Materials Causing Other Toxic Effects, Toxic Material)

WHMIS labeling



International Inventories

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

Components listed below are present on the following International Inventory lists:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECS</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Sodium nitrite	7632-00-0	231-555-9	Present	Present	(1)-483	KE-31546	Present	HSR001286
Disodium tetraborate, anhydrous	1330-43-4	215-540-4	Present	Present	(1)-69	KE-12384	Present	HSR002799
Sodium nitrate	7631-99-4	231-554-3	Present	Present	(1)-484	KE-31545	Present	HSR001350
Sodium metasilicate	6834-92-0	229-912-9	Present	Present	(1)-508	KE-12354	Present	HSR003511
Sodium 2-mercaptobenzothiazole	2492-26-4	219-660-8	Present	Present	(5)-243	KE-02725	Present	HSR004677
Sodium tolytriazole	64665-57-2	265-004-9	Present	Present	(5)-3601	KE-23499	Present	May be used as a single component chemical under an appropriate group standard

16. Other information, including date of preparation or last revision

NFPA Rating

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious
: *Health:* 2 *Flammability:* 0 *Instability:* 1 *Special Hazards:* None.

HMIS Rating

: * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious
Health: *3 *Flammability:* 0 *Reactivity:* 1

Issue date

06/01/2015

Version

1

Legend

ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
CAS: Chemical Abstract Services
CSA: Canadian Standards Association
EC50: Effective Concentration 50%.
EINECS: European Inventory of Existing Commercial chemical Substances
ENCS: Existing and New Chemical Substances
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IBC: Intermediate Bulk Container
IECSC: Inventory of Existing Chemical Substances

MATERIAL SAFETY DATA SHEET

IMDG: International Maritime Dangerous Goods
IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RTECS: Registry of Toxic Effects of Chemical Substances
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

Bibliography

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2015.
2. International Agency for Research on Cancer Monographs, searched 2015.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

Disclaimer

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