

To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrantee or guarantee the information. We provide vendor SDSs in accordance with the requirements of the OSHA Hazard Communication Standard in order to assist our customers in their compliance efforts. We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Compliance Services Zep Inc.



Version 1.1 Revision Date: 02/15/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Windshield Wash Fluid -20F

Recommended use of the chemical and restrictions on use

: Windshield Washer Recommended use

Manufacturer or supplier's details

Company : Nexeo Solutions, LLC.

Address 3 Waterway Square Place Suite 1000

> The Woodlands, TX. 77380 United States of America

Emergency telephone number:

Health North America: 1-855-NEXEO4U (1-855-639-3648) Health International: 1-855-NEXEO4U (1-855-639-3648) Transport North America: CHEMTREC (1-800-424-9300)

Additional Infor-: Responsible Party: Product Safety Group

mation:

E-Mail: msds@nexeosolutions.com SDS Requests: 1-855-429-2661 SDS Requests Fax: 1-281-500-2370 Website: www.nexeosolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 3

Acute toxicity

(Inhalation)

: Category 3

Acute toxicity (Dermal) : Category 3

Specific target organ toxicity - single exposure

: Category 1 (Eyes, Central nervous system)

GHS Label element

Hazard pictograms







Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.

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H301 + H311 + H331 Toxic if swallowed, in contact

with skin or if inhaled

H370 Causes damage to organs.

Precautionary statements : **Prevention:**

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

P233 Keep container tightly closed.

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.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician. P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

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.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Carcinogenicity:

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible

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or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater

than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by ACGIH.

OSHA No component of this product present at levels greater

than or equal to 0.1% is identified as a carcinogen or

potential carcinogen by OSHA.

NTP No component of this product present at levels greater

than or equal to 0.1% is identified as a known or antici-

pated carcinogen by NTP.

Emergency Overview

Appearance	liquid
Colour	blue
Odour	alcohol-like
Hazard Summary	No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

CAS-No.	Chemical Name	Concentration (%)
67-56-1	Methanol	30 - 50

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attend-

ance.

Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek

medical advice.

If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

If on clothes, remove clothes.

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In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious per-

son.

If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing

media

: Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains

or water courses.

Hazardous combustion

products

: No hazardous combustion products are known

Specific extinguishing

methods

: Use a water spray to cool fully closed containers.

Further information : Collect contaminated fire extinguishing water sepa-

rately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regu-

lations.

For safety reasons in case of fire, cans should be

stored separately in closed containments.

Special protective equip-

ment for firefighters

: Wear self-contained breathing apparatus for fire-

fighting if necessary.

NFPA Flammable and Combustible Liquids Classification:

Flammable Liquid Class IC

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition. Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains

inform respective authorities.

Methods and materials for containment and cleaning up

 Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regula-

tions (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in

the application area.

Take precautionary measures against static discharg-

es.

Provide sufficient air exchange and/or exhaust in work

rooms.

Open drum carefully as content may be under pres-

sure.

Dispose of rinse water in accordance with local and

national regulations.

Conditions for safe stor-

age

: No smoking.

Keep container tightly closed in a dry and well-

ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Observe label precautions.

Electrical installations / working materials must com-

ply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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CAS-No.	Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
67-56-1	Methanol	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm	NIOSH REL
			260 mg/m3	
		ST	250 ppm	NIOSH REL
			325 mg/m3	
		TWA	200 ppm	OSHA Z-1
			260 mg/m3	
		STEL	250 ppm	OSHA PO
			325 mg/m3	
		TWA	200 ppm 260 mg/m3	OSHA PO

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sam-	Permissi-	Basis
		parame-	specimen	pling	ble con-	
		ters		time	centration	
Methanol	67-56-1	Methanol	Urine	End of	15 mg/l	ACGIH
				shift		BEI
				(As		
				soon as		
				possible		
				after		
				expo-		
				sure		
				ceases)		

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

In the case of vapour formation use a respirator with

an approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be dis-

cussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work

place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

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Wash hands before breaks and immediately after handling the product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : blue

Odour : alcohol-like

Odour Threshold : No data available

pH : No data available

Freezing Point : No data available

Boiling Point : No data available

Flash point : $29 \, ^{\circ}\text{C} \, (84 \, ^{\circ}\text{F})$

Evaporation rate : 1

Ethyl Ether

Flammability (solid, gas) : No data available

Burning rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : > 1(Air = 1.0)

Relative density : 0.918 @ 20 °C (68 °F)

Density : 0.918 g/cm3 @ 20.00 °C (68.00 °F)

Bulk density : No data available

Water solubility : No data available

Solubility in other sol-

vents

: No data available

Partition coefficient: n- : No data available

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octanol/water

Auto-ignition temperature : No data available

Thermal decomposition : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of

normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No hazards to be specially mentioned.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition

sources.

Incompatible materials : aluminum

Lead peroxides sodium Strong acids Strong bases

Strong oxidizing agents

Zinc

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate : 289.24 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 8.68 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 867.72 mg/kg

Method: Calculation method

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Components:

67-56-1:

Acute oral toxicity : LD50 (Rat): 100 mg/kg

Assessment: The component/mixture is toxic after

single ingestion.

Acute inhalation toxicity : LC50 (Rat): 5 mg/l

Assessment: The component/mixture is toxic after

short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): 300 mg/kg

Assessment: The component/mixture is toxic after

single contact with skin.

Skin corrosion/irritation

Product:

Result: No skin irritation

Components:

67-56-1:

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Result: No eye irritation

Components:

67-56-1:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitisation

Components:

67-56-1:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.



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Germ cell mutagenicity

Components:

67-56-1:

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Test species: Mouse (male and female)

Cell type: Bone marrow

Application Route: Intraperitoneal

Exposure time: Single

Dose: 0, 1920, 3200, 4480 mg/kg

Result: negative

Germ cell mutagenicity-

Assessment

: Tests on bacterial or mammalian cell cultures did not

show mutagenic effects.

Carcinogenicity

Components:

67-56-1:

sessment

Carcinogenicity - As- : Not classifiable as a human carcinogen.

Reproductive toxicity

Components:

67-56-1:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female Application Route: Inhalation Dose: 0, 0.013, 0.13, 1.3 mg/L Duration of Single Treatment: 20 h

General Toxicity - Parent: NOAEC: 1.3 mg/l General Toxicity F1: NOAEC: 0.13 mg/l

Fertility: NOAEC: 1.3 mg/l

Symptoms: Effects on postnatal development Result: Animal testing did not show any effects on

fertility.

Reproductive toxicity -

Assessment

: Fertility classification not possible from current data. Embryotoxicity classification not possible from current

data.

STOT - single exposure

Product: No data available

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Components:

67-56-1:

Exposure routes:	Target Organs:	Assessment:	Remarks:
	Eyes, Central nerv- ous system	Causes damage to organs., The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.	

STOT - repeated exposure

Product:No data available

Components:

67-56-1:No data available

Repeated dose toxicity

Components:

67-56-1:

Species: Mouse, male and female

NOAEL: 1.3 mg/l

Application Route: Inhalation Exposure time: 12 mths

Number of exposures: Continuous Dose: 0, 0.013, 0.13, 1.3 mg/L

Aspiration toxicity

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

67-56-1:



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Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 15,400

mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and

other aquatic inverte-

brates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Scenedesmus capricornutum (fresh water al-

> gae)): > 1,000 mg/lEnd point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to bacteria : IC50 (activated sludge): > 1,000 mg/l

> End point: Growth rate Exposure time: 3 h Test Type: Static

Method: OECD Test Guideline 209

Persistence and degradability

Components:

67-56-1:

Biodegradability : aerobic

Result: Readily biodegradable

Biodegradation: 72 %

Remarks: Readily biodegradable

Biochemical Oxygen De- : 600 - 1,120 mg/g

mand (BOD)

Chemical Oxygen De-

mand (COD)

: 1,420 mg/g

BOD/COD : BOD: 600 - 1120COD: 1420

Stability in water : Hydrolysis: 91 % at19 °C(72 h)

Remarks: Hydrolyses on contact with water.

Hydrolyses readily.

Bioaccumulative potential

Components:

67-56-1:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 1.0

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Exposure time: 72 d Temperature: 20 °C Concentration: 5 mg/l

Remarks: This substance is not considered to be very

persistent and very bioaccumulating (vPvB).

Partition coefficient: n-

octanol/water

: log Pow: -0.77

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection

of Stratospheric Ozone - CAA Section 602 Class I Sub-

stances

Remarks This product neither contains, nor was manufactured

with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A

+ B).

Additional ecological in-

formation

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local,

state and federal regulations.

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group

at 800-637-7922.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

Do not burn, or use a cutting torch on, the empty

drum.

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SECTION 14. TRANSPORT INFORMATION

IATA (International Air Transport Association): UN1230, METHANOL SOLUTION, (METHANOL), 3 (6.1), II, Flash Point:29 °C(84 °F)

IMDG (International Maritime Dangerous Goods): UN1230, METHANOL SOLUTION, (METHANOL), 3, (6.1), II

DOT (Department of Transportation): UN1230, METHANOL SOLUTION, (METHANOL), 3, II

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Flammable liquid, Harmful by ingestion., Harmful by

inhalation., Harmful by skin absorption, Specific target

organ toxicity - single exposure

WHMIS Classification : B2: Flammable liquid

D1B: Toxic Material Causing Immediate and Serious

Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methanol	67-56-1	5000	*

^{*:} Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 : Fire Hazard

Hazards Immediate (Acute) Health Hazard

SARA 302 : No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting

levels established by SARA Title III, Section 313:

67-56-1 Methanol 34.5732 %

Clean Air Act

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The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

67-56-1 Methanol 34.5732 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

67-56-1 Methanol 34.5732 % 532-32-1 Benzoic acid, sodium salt 0.0007 %

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean-Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

67-56-1	Methanol	30 - 50 %

Pennsylvania Right To Know

7732-18-5	Water	50 - 70 %
67-56-1	Methanol	30 - 50 %

New Jersey Right To Know

7732-18-5	Water	50 - 70 %
67-56-1	Methanol	30 - 50 %

California Prop 65 WARNING! This product contains a chemical known to

the State of California to cause birth defects or other

reproductive harm.

67-56-1 Methanol

The components of this product are reported in the following inventories:

United States TSCA Inventory	•	y (positive listing) (On TSCA Invento- ry)
Canadian Domestic Substances List (DSL)	:	y (positive listing) (All components of this product are on the Canadian DSL.)
Australia Inventory of Chemical Substances (AICS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)

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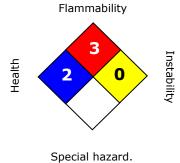


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		/ '!' !' !
New Zealand. Inventory of Chemical Substances	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Japan. ENCS - Existing and New Chemical Substances Inventory	:	n (Negative listing) (Not in compliance with the inventory)
Korea. Korean Existing Chemicals Inventory (KECI)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	:	y (positive listing) (On the inventory, or in compliance with the inventory)
China. Inventory of Existing Chemical Substances in China (IECSC)	:	y (positive listing) (On the inventory, or in compliance with the inventory)

SECTION 16. OTHER INFORMATIONFurther information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 =Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to

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confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

Legacy SDS: 100000003820

Material number:

16054630, 705194, 554054, 554193, 118176, 146400, 146970, 720259, 146518, 16054259, 16053526

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Gov-	LD50	Lethal Dose 50%
	ernment Industrial Hygienists		
AICS	Australia, Inventory of Chem-	LOAEL	Lowest Observed Adverse Effect
	ical Substances		Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Sub-	NIOSH	National Institute for Occupational
11002	stances List	1110011	Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health Admin-
	Scenario Tool		istration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		·
EINECS	European Inventory of Exist-	PICCS	Philipines Inventory of Commercial
	ing Chemical Substances		Chemical Substances
MAK	Germany Maximum Concen-	PRNT	Presumed Not Toxic
	tration Values		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reau-
			thorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemi-	TWA	Time Weighted Average
IECSC	cal Substances in China	IWA	Time Weighted Average
ENCS	Japan, Inventory of Existing	TSCA	Toxic Substance Control Act
	and New Chemical Substanc-		
	es		
KECI	Korea, Existing Chemical In-	UVCB	Unknown or Variable Compositon,
	ventory		Complex Reaction Products, and
			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials In-
			formation System
LC50		Lethal Concentration 50%	



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