# **RESENE AUTOMOTIVE & LIGHT INDUSTRIAL**

Version No: **1.2** Safety Data Sheet according to HSNO Regulations Chemwatch Hazard Alert Code: 2

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## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	RALI SPRAYING THINNER	
Synonyms	Not Available	
Proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)	
Other means of identification	Not Available	

## Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses 7853

## Details of the manufacturer/importer

Registered company name	RESENE AUTOMOTIVE & LIGHT INDUSTRIAL	
Address	32-50 Vogel Street Naenae Wellington New Zealand	
Telephone	+64 4 5770500	
Fax	+64 4 5773327	
Website	www.resene.co.nz	
Email	advice@resene.co.nz	

#### **Emergency telephone number**

Association / Organisation	NZ POISONS (24hr 7 days)
Emergency telephone numbers	0800 764766
Other emergency telephone numbers	0800 737636

## CHEMWATCH EMERGENCY RESPONSE

Primary Number	Alternative Number 1	Alternative Number 2
+800 2436 2255	+612 9186 1132	Not Available

Once connected and if the message is not in your prefered language then please dial 01

## **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

SIGNAL WORD

WARNING

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

GHS Classification <sup>[1]</sup>	Acute Aquatic Hazard Category 2, Acute Toxicity (Inhalation) Category 5, Acute Toxicity (Oral) Category 5, Chronic Aquatic Hazard Category 2, Eye Irritation Category 2A, Flammable Liquid Category 3, Reproductive Toxicity Category 2, Skin Corrosion/Irritation Category 2, STOT - SE Category 2, Acute Vertebrate Hazard Category 3	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI	
Determined by Chemwatch using GHS/HSNO criteria	9.1B, 6.4A, 6.1E (oral), 6.9B, 6.1E (inhalation), 6.3A, 6.8B, 3.1C	
_abel elements		
GHS label elements		

## Hazard statement(s)

H226	Flammable liquid and vapour
H303	May be harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H361	Suspected of damaging fertility or the unborn child
H371	May cause damage to organs
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H433	Harmful to terrestrial vertebrates

## Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
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Precautionary statement(s) Response		
P370+P378 In case of fire: Use alcohol resistant foam or normal protein foam for extinction.		
Precautionary statement(s) Storage		
P403+P235         Store in a well-ventilated place. Keep cool.		
Precautionary statement(s) Disposal		
P501	Dispose of contents/container to authorised chemical landfill or if organic to high temperature incineration	

# SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

## Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
64742-82-1.	20-40	naphtha petroleum, heavy, hydrodesulfurised
1330-20-7	40-50	xylene
64742-95-6	10-20	naphtha petroleum, light aromatic solvent

## **SECTION 4 FIRST AID MEASURES**

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

## Description of first aid measures

Eye Contact	Eye Contact       If this product comes in contact with the eyes:         Immediately hold eyelids apart and flush the eye continuously with running water.         Eye Contact       Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lide         Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.         Transport to hospital or doctor without delay.         Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.	
Skin Contact	Skin Contact       If skin contact occurs:         Immediately remove all contaminated clothing, including footwear.         Flush skin and hair with running water (and soap if available).         Seek medical attention in event of irritation.	
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>	
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>	

#### Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for

difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

For acute or short term repeated exposures to xylene:

- Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- Pulmonary absorption is rapid with about 60-65% retained at rest.
- Primary threat to life from ingestion and/or inhalation, is respiratory failure.
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

**BIOLOGICAL EXPOSURE INDEX - BEI** 

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant	Index	Sampling Time	Comments
Methylhippu-ric acids in urine	1.5 gm/gm creatinine	End of shift	
	2 mg/min	Last 4 hrs of shift	

## **SECTION 5 FIREFIGHTING MEASURES**

Extinguishing media

Foam.

#### Special hazards arising from the substrate or mixture

Fire	Incompatibility	compatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result	
Advice for firefighters			
	Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> </ul>	
Fire/Exp	plosion Hazard	Liquid and vapour are flammable.	

## SECTION 6 ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Minor Spills	Remove all ignition sources.
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> </ul>
	Personal Protective Equipment advice is contained in Section 8 of the MSDS.

#### SECTION 7 HANDLING AND STORAGE

#### Precautions for safe handling

Safe handling	Containers, even those that have been emptied, may contain explosive vapours.
Other information	Store in original containers in approved flammable liquid storage area.

#### Conditions for safe storage, including any incompatibilities

Suitable container	Packing as supplied by manufacturer.
Storage incompatibility	<ul> <li>Xylenes:</li> <li>may ignite or explode in contact with strong oxidisers, 1,3-dichloro-5,5-dimethylhydantoin, uranium fluoride</li> <li>attack some plastics, rubber and coatings</li> <li>may generate electrostatic charges on flow or agitation due to low conductivity.</li> </ul>

## PACKAGE MATERIAL INCOMPATIBILITIES

Not Available

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control parameters**

## OCCUPATIONAL EXPOSURE LIMITS (OEL)

## INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	naphtha petroleum, heavy, hydrodesulfurised	White spirits (Stoddard solvent)	525 mg/m3 / 100 ppm	Not Available	Not Available	Not Available
New Zealand Workplace Exposure Standards (WES)	xylene	Xylene (o-, m-, p-isomers)	217 mg/m3 / 50 ppm	Not Available	Not Available	Not Available

## EMERGENCY LIMITS

Ingredient Material name TEEL-1 TEEL-2 TEEL-3
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naphtha petroleum, heavy, hydrodesulfurised	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)		100 ppm	350 ppm	29500 ppm
xylene	Xylenes		Not Available	Not Available	Not Available
naphtha petroleum, light aromatic solvent	Aromatic hydrocarbon solvents; (High flash naphtha distillates; Solvent naphtha (petroleum), light aromatic)		3.1 ppm	34 ppm	410 ppm
Ingredient	Original IDLH	Revised IDLH			
naphtha petroleum, heavy, hydrodesulfurised	29,500 mg/m3	20,000 mg/m3			
xylene	1,000 ppm	900 ppm			
naphtha petroleum, light aromatic solvent	Not Available	Not Available			

#### **Exposure controls**

Appropriate engineering controls	CARE: Use of a quantity of this material in confined space or poorly ventilated area, where rapid build up of concentrated atmosphere may occur, could require increased ventilation and/or protective gear Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC.
Body protection	See Other protection below
Other protection	► Overalls.
Thermal hazards	Not Available

#### Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

## RALI SPRAYING THINNER

Material	CPI
BUTYL	С
BUTYL/NEOPRENE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
TEFLON	С
VITON	С

\* CPI - Chemwatch Performance Index

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### **Respiratory protection**

Type A Filter of sufficient capacity.

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection

varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	A-AUS / Class 1	-	A-PAPR-AUS / Class 1
up to 25 x ES	Air-line*	A-2	A-PAPR-2
up to 50 x ES	-	A-3	-
50+ x ES	-	Air-line**	-

\* - Continuous-flow; \*\* - Continuous-flow or positive pressure demand

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

A: Best Selection

Appearance	Clear colourless liquid with strong solvent odour		
Physical state	Liquid	Relative density (Water = 1)	0.842
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	430
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	140	Molecular weight (g/mol)	Not Available
Flash point (°C)	30	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	7.0	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.6	Volatile Component (%vol)	100
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	841

# SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

Inhaled	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.
Ingestion	Accidental ingestion of the material may be seriously damaging to the health of the individual; animal experiments indicate that ingestion of less than 40 gram may be fatal.
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption.
Eye	There is some evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation.
Chronic	Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility.

	TOXICITY	IRRITATION
RALI SPRAYING THINNER	Not Available	Not Available
	ΤΟΧΙΟΙΤΥ	IRRITATION
naphtha petroleum, heavy, hydrodesulfurised	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Not Available
nyaloucounaniscu	Inhalation (rat) LC50: >1400 ppm/8H <sup>[2]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>	Eye (human): 200 ppm irritant
xylene	Inhalation (rat) LC50: 5000 ppm/4h <sup>[2]</sup>	Eye (rabbit): 5 mg/24h SEVERE
	Oral (rat) LD50: 4300 mg/kgt <sup>[2]</sup>	Eye (rabbit): 87 mg mild
		Skin (rabbit):500 mg/24h moderate
	ΤΟΧΙΟΙΤΥ	IRRITATION
naphtha petroleum, light aromatic solvent	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Nil reported
	Inhalation (rat) LC50: >3670 ppm/8 h * <sup>[2]</sup>	
	Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>	
Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's msds. Unless otherwise specified d		

XYLENE	The material may produce severe irritation to the eye causing pronounced inflammation. Reproductive effector in rats		
NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. * [Devoe] .		
RALI SPRAYING THINNER, NAPHTHA PETROLEUM, HEAVY, HYDRODESULFURISED	No significant acute toxicological data identified in literature search.		
Acute Toxicity	×	Carcinogenicity	0
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	*	STOT - Single Exposure	*
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	S Aspiration Hazard		
			– Data required to make classification available – Data available but does not fill the criteria for classification – Data Not Available to make classification

#### CMR STATUS

REPROTOXIN

xylene ILO Chemicals in the electronics industry that have toxic effects on reproduction

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)

## Bioaccumulative potential

Ingredient	Bioaccumulation
xylene	MEDIUM (BCF = 740)
Mobility in soil	
Ingredient	Mobility
	No Data available for all ingredients

## SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	Containers may still present a chemical hazard/ danger when empty.
	Ensure that the disposal of material is carried out in accordance with Hazardous Substances (Disposal) Regulations 2001.

## **SECTION 14 TRANSPORT INFORMATION**

# Labels Required Image: Constant of the consta

UN number	1263		
Packing group	M .		
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Environmental hazard	No relevant data		
Transport hazard class(es)	Class     3       Subrisk     Not Applicable		
Special precautions for user	Special provisions163;223;367Limited quantity5 L		

# Air transport (ICAO-IATA / DGR)

UN number	1263			
Packing group	Ш	II III III III III III III III III III		
UN proper shipping name	Paint (including paint, l reducing compounds)	Paint (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base); Paint related material (including paint thinning or reducing compounds)		
Environmental hazard	No relevant data	No relevant data		
Transport hazard class(es)	ICAO/IATA Class3ICAO / IATA SubriskNot ApplicableERG Code3L			
Special precautions for user	Passenger and Cargo Passenger and Cargo		A3 A72 A192 366 220 L 355 60 L Y344 10 L	

# Sea transport (IMDG-Code / GGVSee)

UN number	1263		
Packing group	Ш		
UN proper shipping name	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)		
Environmental hazard	Not Applicable		
Transport hazard class(es)	IMDG Class     3       IMDG Subrisk     Not Applicable		
Special precautions for user	EMS NumberF-E , S-ESpecial provisions163 223 955Limited Quantities5 L		

# Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC code

Source	Ingredient	Pollution Category
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	naphtha petroleum, heavy, hydrodesulfurised	Y
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	xylene	Y
IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk	naphtha petroleum, light aromatic solvent	Y

## SECTION 15 REGULATORY INFORMATION

## Safety, health and environmental regulations / legislation specific for the substance or mixture

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number	Group Standard	
HSR002650	Solvents (Flammable) Group Standard 2006	
naphtha petroleum, heavy, hydrodesulfurised(64742-82-1.) is found on the following regulatory lists	"New Zealand Inventory of Chemicals (NZIoC)", "New Zealand Workplace Exposure Standards (WES)", "New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals"	
xylene(1330-20-7) is found on the following regulatory lists	Monographs" "New Zealand Workplace Exposure Standards (WES)" "New Zealand Hazardous Substances and New Organisms (HSNO) Act.	
naphtha petroleum, light aromatic solvent(64742-95-6) is found on the following regulatory lists	"New Zealand Inventory of Chemicals (NZIoC)"	

## **Location Test Certificate**

Subject to Regulation 55 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations a location test certificate is required when quantity greater than or equal to those indicated below are present.

Hazard Class	Quantity beyond which controls apply for closed containers	Quantity beyond which controls apply when use occurring in open containers
3.1C	500 L in containers greater than 5 L 1500 L in containers up to and including 5 L	250 L 250 L

#### **Approved Handler**

Subject to Regulation 56 of the Hazardous Substances (Classes 1 to 5 Controls) Regulations, the substance must be under the personal control of an Approved Handler when present in a quantity greater than or equal to those indicated below.

Class of substance	Quantities	
Not Applicable	Not Applicable	
National Inventory	Status	
Australia - AICS	Y	
Canada - DSL	Y	
China - IECSC	Y	
Europe - EINEC / ELINCS / NLP	Y	
Japan - ENCS	N (naphtha petroleum, heavy, hydrodesulfurised)	
Korea - KECI	Y	
New Zealand - NZIoC	Y	
Philippines - PICCS	Y	
USA - TSCA	Y	
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)	

# **SECTION 16 OTHER INFORMATION**

## Other information

## Ingredients with multiple cas numbers

Name	CAS No
naphtha petroleum, heavy, hydrodesulfurised	64742-82-1., 8052-41-3.
naphtha petroleum, light aromatic solvent	25550-14-5, 64742-95-6

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references

The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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