

## KONECRANES RESTRICTED SUBSTANCES LIST, Version January 2023

Konecranes Restricted Substances List defines chemical substances which are not conforming to Konecranes Environmental and Safety Policies. These substances are therefore globally prohibited or restricted to be present in the products Konecranes supplies to the market and in products that Konecranes purchases from its suppliers as well in Konecranes' own production and service processes. The list includes also some requirements for substances used in suppliers' production and packing and for a waste treatment of certain substances. Substances on the list are harmful to human beings and/or the environment.

Restrictions are based on legal requirements in EU and in selected other countries. Any other national regulation that is more restrictive must be followed in that country.

The Konecranes Restricted Substances List must be followed throughout Konecranes Group. Suppliers and sub-contractors must comply with it globally and are held responsible for meeting all relevant regulations as well as any other national regulations. Suppliers have to document and declare the presence of hazardous substances in delivered products as mentioned on the list to *PSC-Supplier-Substances-Support@konecranes.com*.

The restrictions do not apply in those cases the substance occurs in the form of impurities in the product (undesirable occurrence in very small amounts). Konecranes will review this List at least once a year by end of March. Suppliers are required to follow and fulfill the requirements of the latest list. The list is available at <https://www.konecranes.com/suppliers/doing-business-with-konecranes> or at the request to *PSC-Supplier-Substances-Support@konecranes.com* it can be sent to the supplier.



Franz Schulte  
Chief Technology Officer

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Substances	Konecranes approach, and examples of potential applications where substance could be used	Main risk (1)	Examples of legal references or international agreements (2)
<b>Metals</b>			
Arsenic compounds	<b>Restricted in all applications. Subject to reporting.</b> Potential applications: wooden packaging material, nonferrous alloys, corrosion inhibitor.	Aq, C, T	REACH In wood preservation (packaging materials), intentionally added. In textiles 1 mg/kg after extraction PIC US TSCA (4), Proposition 65 List, Minnesota Lists Canada SOR/2019-51
Cadmium compounds	<b>Restricted in all applications. Subject to reporting. (3)</b> Potential applications: plating, pigments, anti-corrosion surface treatment, solder, metals, electronics, batteries and accumulators, packaging plastics.	Aq, C, M, R, T	REACH In plastic parts, 0.01% (recycled PVC 0.1%). In textiles 1 mg/kg after extraction RoHS In electrical and electronic equipment, 0.01% of homogenous material 2006/66/EC In batteries and accumulators 0.002% PPW In packaging PIC China 2016 RoHS China GB/T 26572-2011 In electrical and electronic products 0.01% China SJ/T 11364-2014 Tag requirements China SJ/T 11363-2006 In electronic information products 0.01% China GB 24427-2009 In batteries China GB 30981-2020 In coating 100 mg/kg China GB/T 38295-2019 In plastic materials 100 mg/kg US/CA SB 20/50 Several applications US TSCA (4), Proposition 65 List, Minnesota Lists Canada SOR/2019-51
Hexavalent chromium compounds	<b>Restricted in all applications. Subject to reporting. (3)</b> Potential applications: passivation, chromate treatment, plating, anti-corrosion surface treatment, pigments, paints, dye, plastics, metals, steel parts, solder, electronics, batteries and accumulators, packaging plastics, cement.	Aq, C, M, R, T	REACH In cement 0.0002%. In textiles 1 mg/kg after extraction RoHS In electrical and electronic equipment, 0.1% of homogenous material PPW In packaging China 2016 RoHS China GB/T 26572-2011 In electrical and electronic products 0.1% China SJ/T 11364-2014 Tag requirements China SJ/T 11363-2006 In electronic information products 0.1% China GB 30981-2020 In coating 1000 mg/kg China GB/T 38295-2019 In plastic materials 1000 mg/kg US/CA SB 20/50 Several applications US TSCA (4), Proposition 65 List, Minnesota Lists
Lead compounds	<b>Restricted in all applications, except in lead batteries. Subject to reporting (3)</b> Potential applications: electronics, solder, counterweights, pigments, paints.	Aq, C, R, T	REACH Lead carbons and lead sulphates in paints. In textiles 1 mg/kg after extraction RoHS In electrical and electronic equipment, 0.1% of homogenous material PPW In packaging PIC China 2016 RoHS China GB/T 26572-2011 In electrical and electronic products 0.1% China SJ/T 11364-2014 Tag requirements China SJ/T 11363-2006 In electronic information products 0.1% China GB 24427-2009 In batteries China GB 30981-2020 In coating 1000 mg/kg China GB/T 38295-2019 In plastic materials 1000 mg/kg US/CA SB 20/50 Several applications US TSCA (4), Proposition 65 List, Minnesota Lists Canada SOR/2019-51
Mercury compounds	<b>Prohibited or Restricted in all applications. Subject to reporting. (3)</b> Potential applications: electronics, pigments, anticorrosion, fluorescent bulbs, switches, impregnation of heavy-duty industrial textiles, batteries, measuring devices.  <b>Prohibited in acetaldehyde production</b> in which mercury or mercury compounds are used as a catalyst.  <b>Restricted In all production processes. Subject to reporting.</b> Potential applications: Chloralkali production, Vinyl chloride monomer production, Production of polyurethane using mercury containing catalysts.  <b>Mercury waste</b> must be managed in an environmentally sound manner as defined in Minamata Convention.	Aq, T	REACH In wood preservation (packaging), industrial textiles RoHS In electrical and electronic equipment, 0.1% of homogenous material 2006/66/EC In batteries and accumulators 0.0005% PPW In packaging PIC Minamata Convention Prohibitions and restrictions for several products and processes, requirements for waste treatment China 2016 RoHS China GB/T 26572-2011 In electrical and electronic products 0.1% China SJ/T 11364-2014 Tag requirements China SJ/T 11363-2006 In electronic information products 0.1% China GB 24427-2009 In batteries China GB 24428-2009 In batteries China GB 30981-2020 In coating 1000 mg/kg China GB/T 38295-2019 In plastic materials 1000 mg/kg US/CA SB 20/50 Several applications US TSCA (4), Proposition 65 List, Minnesota Lists, New York Env Law § 27-0719 Canada SOR/2019-51
<b>Ozone depleting substances</b>			
Ozone depleting substances (BCMs, CFCs, HCFCs, halons, HBFCs, methyl bromide, carbon tetrachloride, ozone depleting solvents)	<b>Prohibited in all applications.</b> Potential applications: coolant in air conditioning system, propellant gas in aerosol cans.	Ozone depleting, GHG	Montreal Protocol, 1005/2009/EC, EU 517/2014, US Clean Air Act, Canada SOR/2016-137 In all applications
Nitrogen trifluoride	<b>Prohibited in all applications.</b> Potential applications: refrigeration and air conditioning systems, heat pumps, electrical switchgear, fire protection, foam production and as aerosols and solvents	Ozone depleting, GHG	CH SR 814.81 (Annex I, Annex II) Special permit possible.
<b>Brominated and other flame retardants (5)</b>			
Polybrominated biphenyls (PBBs), polybrominated diphenylethers (PBDEs),	<b>Restricted in all applications. Subject to reporting. (3)</b> Potential applications: flame retardant, plastic parts, textiles, electronics.	PBT, C, M, R, ED	REACH In textiles POP In all applications PBDEs (tetra-, penta-, hexa-, hepta- and decaBDE) 500 mg/kg. Exemptions to decaBDE in motor vehicles: powertrain, underhood and fuel system applications, and pyrotechnical devices and applications affected

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hexabromocyclododecane (HBCDD)			by pyrotechnical devices. HexaBB prohibited in all applications. HBCDD 100 mg/kg (0.01%) in all applications PIC Certain PBBs, PBDEs RoHS In electrical and electronic equipment, 0.1% of homogenous material China 2016 RoHS China GB/T 26572-2011 In electrical and electronic products 0.1% China SJ/T 11364-2014 Tag requirements China SJ/T 11363-2006 In electronic information products 0.1% US TSCA (CFR Title 40 Part 721) (4), Proposition 65 List (PBBs, pentaBDE), Minnesota Lists
Decabromodiphenyl ethane (DBDPE)	Restricted for import. Subject to reporting. Potential applications: Flame retardant in plastics, rubber, electrical equipment, adhesives and sealants.	PBT	Canada CEPA 1999 (Ministerial Condition No. 15193) REACH (Under assessment)
<b>Phthalates</b>			
Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP)	Restricted in all applications. Subject to reporting. (3) Potential applications: plastic parts, electronics, rubber components in engine systems.	C, T, Te	RoHS In electrical and electronic equipment, 0.1% of homogenous material PIC BBP, DIBP US TSCA (4), Proposition 65 List (DEHP, BBP, DBP), Minnesota Lists Canada NPRI (DEHP, BBP, DBP)
Diisopentyl phthalate, Bis(2-methoxyethyl) phthalate, Dipentyl phthalate, N-pentylisopentyl phthalate	Prohibited in all applications	R	REACH Prohibited also in spare parts from March 2023 onwards US TSCA (4) ((Bis(2-methoxyethyl) phthalate, Dipentylphthalate) Minnesota Lists (Diisopentylphthalate, Bis(2-methoxyethyl) phthalate, Dipentylphthalate)
<b>PCB and replacements (5)</b>			
Polychlorinated biphenyls (PCBs), Polychlorinated triphenyls/terphenyls (PCTs)	Prohibited in all applications. Potential applications: capacitors, insulators, resistors and transformers, flame retardants for plastics.	Aq, PBT/vPvB, POP	REACH In all applications as substance, (in mixtures and equipment 0.005%) (PCTs) POP In all applications (equipment 0.005% or 0.05 dm³) (PCBs) Rotterdam Convention/PIC US TSCA (4), Proposition 65 List (PCBs), Minnesota Lists Canada SOR/2008-273 Certain PCB uses allowed, Canada SOR/2012-285
<b>Phenols (5)</b>			
Pentachlorophenol (PCP), its salts and ethers	Restricted in all applications. Subject to reporting. Potential applications: impregnation of wood and textile.	Aq, T, ED	POP In all applications, 0.0005% PIC US TSCA (4), Proposition 65 List, Minnesota Lists
4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated 4-Nonylphenol, branched and linear, ethoxylated	Prohibited in all applications Potential applications: adhesives and sealants, coating products	Ag, ED	REACH Prohibited also in spare parts from March 2023 onwards PIC (nonylphenols) US TSCA (4), Minnesota Lists
Isopropylated phenol phosphate (PIP 3:1)	Restricted in all applications. Subject to reporting. Potential applications: textiles, rubber, polyurethane foam, cutting oils, electronic equipment	PBT	REACH (under assessment) US TSCA Certain uses allowed (4), Minnesota Lists
2,4,6-Tris(tert-butyl)phenol (2,4,6-TTBP)	Restricted in all applications. Subject to reporting. Potential applications: oil or lubricant additive	PBT	REACH (under assessment) US TSCA In oils and lubricants 0.3% (4), Minnesota Lists Canada SOR/2019-51
Pentachlororophenol (PCTP) (Pentachlorobenzenethiol)	Restricted in all applications. Subject to reporting. Potential applications: rubber	Ag, R, T	REACH (Annex III) US TSCA In all applications, 1% (4), Minnesota Lists
<b>Perfluoroalkylated substances (PFAS) (5)</b>			
Perfluorooctane sulfonic acid (PFOS) and its derivatives	Prohibited in all applications. Potential applications: hydraulic fluids, fire fighting foams, protective coating, textiles, upholstery	C, R, PBT, POP	POP In semifinished products or articles, or parts thereof, 0.1%; textiles or other coated materials 1 µg/m² PIC US TSCA (4), Proposition 65 List, Minnesota Lists Canada SOR/2012-285 Certain uses allowed
Perfluorooctanoic acid (PFOA), its salts and PFOA-related compounds	Prohibited in all applications. Potential applications: hydraulic fluids, fire fighting foams, protective coating, textiles, upholstery	C, R, PBT, POP	POP In all applications, PFOA or any of its salts 0.0000025%; any individual PFOA-related compound or a combination of PFOA-related compounds 0.0001% (exemptions for manufacturing polytetrafluoroethylene (PTFE) and polyvinylidene fluoride (PVDF) for specific applications till July 2023) US TSCA (4), Proposition 65 List, Minnesota Lists Canada SOR/2012-285 Certain uses allowed
<b>Other Chlorinated compounds (5)</b>			
Alkanes C <sub>10</sub> -C <sub>13</sub> (short-chain chlorinated paraffins) (C <sub>10</sub> -C <sub>13</sub> chloro alkanes)	Restricted in all applications. Subject to reporting. Potential applications: fuels	C, PBT, POP	POP In articles 0.15% US TSCA (4), Minnesota Lists Canada SOR/2012-285
Hexachlorobutadiene (HCBD)	Prohibited in all applications Potential applications: Rubber, car and other tyres	Ag, C, R, POP	POP US TSCA (4), Proposition 65 List, Minnesota Lists Canada SOR/2012-285
Polychlorinated naphthalenes (PCNs)	Prohibited in all applications Potential applications: electrical devices, impregnated wood, waterproof paper/textiles	POP	POP US TSCA (In US TSCA work plan), Minnesota Lists Canada SOR/2012-285
PeCB or pentachlorobenzene	Prohibited in all applications Potential applications: flame retardants, component of PCB	POP	REACH (Annex III) PIC POP
HCB or hexachlorobenzene	Prohibited in all applications Potential applications: wood preservative, starting material in the manufacture of various chemicals. Papermaking, solvent in the paint and plastics and other chemical, textile and metal industries.	C POP	REACH (Annex III) PIC POP
Benzidine dihydrochloride	Prohibited in all applications Potential applications: manufacture of dyes and pigments	C	REACH (Annex XVII) Canada SOR/2012-285

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Others			
Asbestos compounds and minerals, all members	Prohibited in all applications. Potential applications: brake lining pad.	C, M, R	REACH All applications PIC US TSCA (4), Proposition 65 List, Minnesota Lists Canada NPRI, Canada SOR/2018-196
Radioactive substances	Restricted & prohibited in all applications. Subject to reporting. Potential applications: Optical properties (thorium), sensors (americium).	M	Council Directive 2013/59/EURATOM US NRC Certain uses allowed Canada Nuclear Safety and Control Act Certain uses allowed
Formaldehyde	Restricted in packaging material, due to workplace exposure restrictions and protection. Subject to reporting. Potential applications: in packaging as wood preservation, textiles.	Allergenic, T, C	REACH in textiles 75 mg/kg in homogenous material (Nov 2023 onwards) US/CA CARB Rule, US TSCA (US CFR Title 40 Part 770/USC Title 15, Chapter 53, Subchapter VI, §2697) (4), Proposition 65 List, Minnesota Lists Canada NPRI
Benzene	Restricted in all applications. Subject to reporting. Potential applications: Solvent, fuel component, coatings, intermediate substance in chemical industry, impurity.	C	REACH In all applications, 0.1%. In textiles 5 mg/kg in homogenous material PIC China GB 30981-2020 In coating 0.3% US TSCA (4), Proposition 65 List, Minnesota Lists Canada NPRI
Polycyclic-aromatic hydrocarbons (PAHs)	Restricted in all applications. Subject to reporting. Potential applications: Rubber, car and other tyres. Extender oil in elastomer. Lubricant (grease). Coatings.	C, M, R	REACH In tyres. In textiles 1 mg/kg in homogenous material China GB 30981-2020 In coating 500 mg/kg US TSCA (4), Proposition 65 List, Minnesota Lists Canada NPRI
Creosotes	Restricted in all applications. Subject to reporting. Potential applications: Wooden packaging material.	C, M, R	REACH In wood (packaging) preservation, intentionally added US TSCA (4), Proposition 65 List, Minnesota Lists
1-methyl-2-pyrrolidone (NMP)	Restricted in all applications. Subject to reporting. Potential applications: metal coated plastics, wires, textiles	R	REACH 0.3% (worker exposure limits apply at higher levels), coating wires exempted till May 2024, in textiles 3 000 mg/kg in homogenous material US TSCA (4), Proposition 65 List, Minnesota Lists Canada NPRI
Substances Restricted under REACH (Annex XVII)			
Substances restricted under REACH (Annex XVII)	Prohibited or restricted in applications as defined in REACH. Subject to reporting. Supplier must always check the current list from European Chemicals Agency, <a href="https://echa.europa.eu/substances-restricted-underreach">https://echa.europa.eu/substances-restricted-underreach</a>	Unacceptably harmful to health or environment	REACH. Concentrations vary for different substances. Some Annex XVII substances are already covered in other parts of this Konecranes Restricted Substances List.
REACH SVHC Candidate List substances			
REACH Candidate list of Substances of Very High Concern (SVHC) for authorization	Restricted in all applications. Subject to reporting. Declare concentration if used. Potential applications: For example flame retardants, corrosion inhibitors, plasticizers, wood preservation, metal working fluids, pigments/paints, electronics. Supplier must always check the current list from European Chemicals Agency, <a href="http://echa.europa.eu/chem_data/candidate_list_table_en.asp">http://echa.europa.eu/chem_data/candidate_list_table_en.asp</a>	C, M, R, PBT, vPvB	REACH In all applications, concentration must be declared if used >0.1% w/w

## EXPLANATIONS

### (1) MAIN RISK

Aq = Harmful to aquatic environment  
C = Carcinogenic  
ED = Endocrine Disruptor (interferes hormonal systems)  
GHG = Green House Gas  
M = Mutagenic  
PBT = Persistent, Bioaccumulative, Toxic  
POP = Persistent Organic Pollutant  
R = Reprotoxic  
Te = Teratogenic  
T = Toxic  
vPvB = very Persistent, very Bioaccumulative

### (2) EXAMPLES OF LEGAL REFERENCES OR INTERNATIONAL AGREEMENTS

#### EU legislation:

1005/2009/EC = Regulation on substances that deplete the ozone layer  
2006/66/EC = Directive on batteries and accumulators  
Council Directive 2013/59/EURATOM  
EU 517/2014 = Regulation on Fluorinated Greenhouse Gases  
PIC = Regulation concerning the export and import of hazardous chemicals (EU 649/2012)  
POP = Regulation on Persistent Organic Pollutants (EU 2019/1021)  
PPW = Directive on Packaging and Packaging Waste (94/62/EEC)  
REACH = Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (EC 1907/2006). Note, references to REACH in this document includes also the requirements of REACH applicable in the United Kingdom ("UK REACH").  
RoHS = Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (2011/65/EU)

#### Others:

##### International:

Minamata Convention = International convention on mercury  
Montreal Protocol = International treaty for the protection of the ozone layer  
POP Convention = Stockholm Convention on Persistent Organic Pollutants  
Rotterdam Convention = The Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade

##### USA:

New York Env Law § 27-0719 is law about battery management and disposal (The Laws of New York, Environmental Conservation ENV, Article 27, Title 7, Section 27-0719)  
US/CA SB 20/50 = California's Restriction on the Use of Certain Hazardous Substances in Some Electronic Devices (California RoHS Law, Department of Toxic Substances Control (DTSC), State of California, USA) [Senate Bill No. 20 & Senate Bill No. 50]  
US Clean Air Act is for protecting ozone layer and regulating air emissions in USA  
US TSCA = Toxic Substances Control Act (USA)  
US NRC = United States Nuclear Regulatory Commission  
US CFR = US Code of Federal Regulations  
USC = United States Code

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**California Proposition 65** = Safe Drinking Water and Toxic Enforcement Act (California Office of Environmental Health Hazard Assessment (OEHHA), State of California, USA)

**Proposition 65 List** = List of chemicals known to the California state to cause cancer or reproductive toxicity

**Minnesota Lists** = Chemicals of High Concern List and Priority Chemicals List published by Minnesota Department of Health (MDH)

## Canada:

**Canada SOR/2012-285** = Canadian Prohibition of Certain Toxic Substances Regulations, 2012

**Canada NPRI** = Canadian National Pollutant Release Inventory (NPRI)

**Canada SOR/2018-196** = Canadian Prohibition of Asbestos and Products Containing Asbestos Regulations, 2018

**Canada SOR/2008-273** = PCB Regulations, 2008

**Canada SOR/2019-51** = Environmental Emergency Regulations, 2019

**Canada SOR/2016-137** = Ozone-depleting Substances and Halocarbon Alternatives Regulations

**Canada Nuclear Safety and Control Act**

**Canada CEPA 1999** = Canadian Environmental Protection Act, 1999

## China:

**China 2016 RoHS** = Decree No. 32 of the Ministry of Industry and Information Technology, the National Development and Reform Commission, the Ministry of Science and Technology, the Ministry of Finance, the Ministry of Environmental Protection, the Ministry of Commerce, the General Administration of Customs and the General Administration of Quality Supervision, Inspection and Quarantine: Administrative Measures on the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products

**China GB/T 26572-2011** = Requirements of Concentration Limits for Certain Restricted Substances in Electrical and Electronic Products

**China SJ/T 11364-2014** = The Tag Requirements relating to Restriction of the Use of Hazardous Substances in Electrical and Electronic Products

**China SJ/T 11363-2006** = Restriction Requirements of Poisonous or Hazardous Substances in Electronic Information Products

**China GB 24427-2009** = Limitation of Mercury, Cadmium and Lead Contents for Alkaline and Non-Alkaline Zinc Manganese Dioxide Batteries

**China GB 24428-2009** = Limitation of Mercury Content for Zinc Silver Oxide, Zinc Oxygen and Zinc Manganese Dioxide Button Batteries

**China GB 30981-2020** = Limitation of Hazardous Substances of Industrial Protective Coatings

**China GB/T 38295-2019** = Limitation for Lead, Cadmium, Hexavalent Chromium, Mercury in Plastic Materials

## Switzerland:

**CH SR 814.81** = Ordinance of 18 May 2005 on the Reduction of Risks relating to the Use of Certain Particularly Dangerous Substances, Preparations and Articles (Chemical Risk Reduction Ordinance, ORRChem)

(3) Maximum concentration values tolerated and applications exempted from the restriction similarly as in EU RoHS Directive's appendix II and appendix III, and for batteries and accumulators as in EU Directive 2006/66/EC and for packaging's as in EU Directive 94/62/EEC.

(4) Pre-manufacture notice (PMN) or Significant New Use Notice (SNUN) to United States Environmental Protection Agency (US EPA) may apply.

(5) **For all Persistent Organic Pollutants (POP):** A) There is a prohibition of the production and use of chemicals pursuant to Article 3 (1) (a) 2) and Annex A of the Stockholm Convention of 23rd May 2001 on Persistent Organic Pollutants (POP Convention), including later amendments. B) There is a prohibition of handling, collection, storage and disposal of waste which is not environmentally sound in accordance with Art. 6 (1) d (i) and (ii) of the POP Convention. In EU POP Convention is implemented by Regulation on Persistent Organic Pollutants (EU 2019/1021).

## Sources and search tools:

European Chemicals Agency (ECHA) (Search for Chemicals, Authorisation List, Candidate List of SVHC, Restriction List):

<https://echa.europa.eu/information-on-chemicals>

<https://echa.europa.eu/authorisation-list>

<https://echa.europa.eu/candidate-list-table>

<https://echa.europa.eu/substances-restricted-under-reach>

EUR-Lex (Access to European Union Law): <https://eur-lex.europa.eu/homepage.html?locale=en>

United States Environmental Protection Agency (US EPA) (Chemistry Dashboard (CompTox Chemicals Dashboard): <https://comptox.epa.gov/dashboard>

US e-CFR (US Electronic Code of Federal Regulations): <https://www.ecfr.gov/cgi-bin/ECFR?page=browse>

California Office of Environmental Health Hazard Assessment (OEHHA) (Proposition 65 List, Searchable Proposition 65 Chemical Database):

<https://oehha.ca.gov/proposition65/proposition65-list>

<https://oehha.ca.gov/proposition65/chemicals>

The New York State Senate (Browse the Laws of New York): <https://www.nysenate.gov/legislation/laws/CONSOLIDATED>

Canada Environment and Natural Resources (Substances Search): <https://pollution-waste.canada.ca/substances-search/Substance?lang=en>

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