



The SIN Producers List for Investors

– Covering MSCI World Developed Market Index
and STOXX® All Europe 800 Chemicals Index





CONTENT

- 5 REACH – a European legislative framework for chemicals
- 5 The SIN List – a peek into the future
- 6 Methodology
- 7 Scope and limitations
- 8 PART 1 – Companies globally (MSCI World Index)
- 14 PART 2 – European chemical companies
(STOXX® All Europe 800 Chemicals Index)

Financial investors have a huge impact on the strategic decisions of companies and can, along with governments, companies, NGOs and scientists, play a crucial role in the drive towards production processes and consumer products with less hazardous chemicals.

The chemical industry is one of the world's largest industries. Besides their unquestionably useful and necessary products, huge quantities of certain chemicals are today legally produced and used in everyday products, even though scientists for decades have shown that they are hazardous to human health and the environment.

From an investor's perspective, the production and use of hazardous chemicals entails huge financial risks. These can take the form of production plant accidents, workers' and consumers' health being adversely affected, or product recalls. Increased costs associated with reformulating products and modifying processes due to intensified regulatory control of hazardous chemicals should also be taken into account. Increased public awareness and consumer demand also intensify the pressure on corporate brands not to be associated with chemicals that harm the environment and human health. Today many downstream users of chemicals, such as producers of consumer goods, aim to improve their sustainability by phasing out hazardous substances.

While all due care has been taken in the preparation of this publication, ChemSec regrets and shall not be liable for any inaccuracies or omissions which may occur herein.

March, 2013





This publication aims to assist financial investors to evaluate companies and the financial risks associated with producing high-concern substances, the substances included on the SIN List.

The SIN List is a concrete tool containing substances that ChemSec, the International Chemical Secretariat, has identified as fulfilling the criteria for Substances of Very High Concern as provided by the EU chemicals regulation REACH. These are substances with known hazardous properties, such as carcinogenic or toxic to reproduction, but which are still not regulated or phased out. The SIN List provides a peek into the future of European chemicals regulation, giving a clear picture of the chemicals most likely to be regulated in the EU in upcoming years.

The first part of this publication lists stock-exchange-listed companies that have registered production or import of SIN List chemicals in the EU. This data has been gathered from the publicly available database of registered substances provided by ECHA, the European Chemicals Agency. The second part presents the European chemical sector in more detail. Here 27 stock-exchange-listed chemical companies are presented, of which 21 have registered production or import of SIN List chemicals.

EXAMPLES OF FINANCIAL RISKS ASSOCIATED WITH HAZARDOUS CHEMICALS

Litigation fines were recently imposed on the former owner and a manager of the asbestos conglomerate Eternit. They were found guilty of involuntary manslaughter and sentenced to 16 years in jail and up to €120 million in compensation. Another example is MAL Hungarian Aluminum, which was found to be responsible for a spill of almost two million cubic metres of a toxic by-product from the production of alumina, receiving a fine of €472 million.

Major recalls due to hazardous chemicals include the recall of toys by Mattel following the discovery of lead in its products in 2007, which resulted in an underperformance of Mattel's share price. Sony faced a halt on PlayStation shipments because of illegally high cadmium levels, leading to lost sales and increased costs totalling about \$150 million.¹

1. For more details and more examples see chemsec.org/what-we-do/investor-dialogue/why-investors-should-care-about-chemicals

REACH – A EUROPEAN LEGISLATIVE FRAMEWORK FOR CHEMICALS

The EU's chemical regulation, REACH, entered into force in 2007. Within REACH the most hazardous chemicals are identified as Substances of Very High Concern (SVHCs). These are substances that can cause cancer, alter DNA or damage reproductive systems. They also include toxic substances that do not easily break down, but instead build up in nature – with the potential to cause serious and long-term irreversible effects.

The REACH Candidate List² contains Substances of Very High Concern. There are immediate legal obligations on producers and retailers following a substance's inclusion on the Candidate List. Upon request, they are obliged to inform consumers as to whether a product contains any substances listed on the Candidate List in concentrations above 0.1%.

The Candidate List is updated twice a year by the European Chemicals Agency, and as of March 2013 it consists of 138

substances. The goal of the European Commission and the European Chemicals Agency is to include “all relevant” substances by 2020.³

Once on the Candidate List, substances may enter the authorisation phase of REACH, meaning that they cannot be used in the EU after a sunset date unless an authorisation has been granted for a specific use. An authorisation, for the price of 50.000 EUR per substance and use, can only be given if the company proves that the risks of continued use are limited or the benefits outweigh the risks.

REACH requires all companies that produce or import a substance on the EU market in quantities greater than 1 tonne per year to register that substance with the European Chemicals Agency (ECHA).

THE SIN LIST – A PEEK INTO THE FUTURE

The SIN (Substitute It Now!) List names substances and substance groups identified by ChemSec as fulfilling the criteria for SVHCs as provided by REACH.

The SIN List has been developed by ChemSec in close collaboration with leading health and environmental NGOs in the EU and the US. It has been revised by scientists and technical experts and is based on credible, publicly available substance information from existing databases, scientific studies and new research.

Today the SIN List is a tool for identification of high-concern chemicals used worldwide by a wide range of companies, investors, legislators and other stakeholders. In a recent European Commission report, the SIN List is identified as a key driver for innovation in the chemicals industry in the EU.⁴

The SIN List database, as well as more information about the SIN List, is publicly available at www.sinlist.org. Beside substance names, CAS and EC numbers, possible uses and the health and environmental implications can also be searched for in the SIN List database.

As a new feature the SIN List database now also includes information about all companies that produce or import SIN List chemicals, also non-stock-exchange-listed companies. By entering a name of a chemical producer, or a country, in the database search field, the database lists all SIN List substances and substance groups produced by that company or in that country.

2. echa.europa.eu/candidate-list-table

3. chemsec.org/news/news-2010/april-june/548-all-relevant-svhcs-will-be-listed-on-the-candidate-list-by-2020

4. “Impact of the REACH regulation on the innovativeness of EU chemical industry”, 2012, ec.europa.eu/enterprise/sectors/chemicals/documents/reach/review2012/innovation_en.htm

METHODOLOGY

The data presented has been collected from the European Chemicals Agency's (ECHA) database of registered substances,⁵ in December 2012. This information has been made publicly available following a ChemSec request for chemical producer transparency, and a ChemSec and ClientEarth lawsuit with the European Court of Justice when ECHA previously refused to disclose this information.⁶

The data has been compiled by listing registrant names of all SIN List substances according to the information found in the ECHA database. Companies have been grouped according to the owner or affiliation of a company group.⁷ If a company is, for example, a joint venture between two companies, the relevant substance is listed for both owners. This applies only to companies with a maximum of two owners. If a company group produces the same chemical at different facilities, the chemical was counted only once. Service providers have been excluded as they are not producers or importers of chemicals. All producers and importers of SIN List chemicals are listed in the SIN List database.⁸

The data presented in the first part of this publication covers companies listed in the MSCI World Developed Markets Index.⁹ The second part presents the 27 European chemical companies listed in the "STOXX® All Europe 800 Chemicals" index.¹⁰

This publication presents number of SIN List chemicals produced or imported by a company group, as well as how many of these are also on the official REACH candidate list.

The data in the first part covering companies globally is presented by industry sector and region. The division

between different sectors is in accordance with the Global Industry Classification Standard (GICS).

In the second part covering European chemical companies, companies are presented in more detail; which SIN List substances they produce or import (name and CAS number) as well as the classifications of health and environmental implications which lay the ground for inclusion on the SIN List (see explanations on next page.)

Information about revenue and number of employees has been taken from the companies' annual reports from 2011.

ISIN numbers (International Securities Identification Number) are also listed, which is a uniform identification of a unique security within financial trading and settlement.

The data presented in the two parts of this publication differs in terms of sectors and regions covered. The first part covers a diversity of production sectors globally, and the second part only covers the European chemical sector. With the 2.1 update of the SIN List a large number of complex hydrocarbon distillates were added to the list. These substances had earlier been exempted from the SIN List, since it was estimated that the vast majority of them were only used as intermediates, and not part of end products. However, REACH registration data has now shown that many of these substances are fully registered, and therefore within the scope of REACH, as they are also carcinogenic, mutagenic or toxic to reproduction. Due to this, in the first part of this publication companies within the oil, gas and consumable fuel sectors end up with a high number of SIN List substances produced or imported.

5. echa.europa.eu/information-on-chemicals/registered-substances

6. chemsec.org/what-we-do/sin-list/eu-court-case

7. Information about company owners or affiliation to a company group was compiled by an internet research between December 2012 and February 2013. It only reflects the information publicly available at this moment in time

8. sinlist.org

9. The MSCI World Index captures large and mid cap representation across 24 Developed Markets countries. With 1,610 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country. We thank MSCI for making the index composite available, reflecting the data on 12 February 2013

10. This index is derived from the STOXX All Europe Total Market Indices TMI, representing the largest 800 companies in Eastern and Western Europe. It covers the largest stocks in the chemical sector in Europe by weighing according to their free-float market capitalization. stox.com/indices/index_information.html?symbol=SXE13P

SCOPE AND LIMITATIONS

Only companies listed in the MSCI World Developed Markets Index and in the “STOXX® All Europe 800 Chemicals” index are presented in this publication.

REACH registration data only discloses production/import of chemicals in the EU. The companies presented may also produce SIN List chemicals outside of the EU, hence this is not included in the data presented here.

Six of the European chemical companies presented in the second part have not registered production or imports of any SIN List substance. However this does not imply that they do not produce any other substances that might be harmful to human health and the environment.

Some REACH registrations are not publically available, or do not contain producer information, and therefore these registrations have not been included as part of the data. This refers to registrations which are claimed confidential,¹¹ or substances that have been notified as new substances.¹²

Most, but not all, SIN List substances have until now had an obligation to be registered with ECHA. The deadline

for REACH registration depends on the classification of a substance, as well as the quantity in which it is produced. Currently only the first registration deadline in December 2010 has passed for chemicals produced in high volumes as well as chemicals with certain properties.¹³ Some lower-volume SIN List chemicals are expected to be registered by the two coming REACH registration deadlines in June 2013 and 2018.¹⁴

The data presented builds on full registrations. In addition to this, many SIN List chemicals have also been registered as intermediates.¹⁵ ECHA has stated that about half of all substances registered as intermediates are incorrectly registered and require full registration. Therefore it is likely that the list of registered SIN List substances will be prolonged as ECHA enforces companies to provide full registrations for these substances.

We are aware that certain specific provisions and exemptions do apply for registration and authorisation in REACH. The full legal text and guidance documents can be found on the ECHA website.

11. A confidentiality claim costs between 225 and 3000 EUR, and will only be approved if the company can prove it will suffer financially if the information provided is not kept confidential. Less than one percent of the registrations include some kind of confidentiality claim.
12. Notification of new substances, “NONS”, require registration, but the registration information is not yet publically available.
13. The first deadline in December 2010 obliged companies to register substances produced or imported in volumes above 1.000 tonnes per year, plus substances that are carcinogenic, mutagenic or toxic to reproduction (CMR substances) produced or imported in quantities above over 1 tonne per year.
14. In June 2013 substances produced or imported in quantities between 100 and 1.000 tonnes per year needs to be registered, and the third and final deadline in June 2018 applies for low-volume chemicals produced or imported between 1 and 100 tonnes per year.
15. An intermediate is a substance only used in the process of developing a chemical end product, and hence not a chemical present in any final product.

CLASSIFICATIONS OF HEALTH AND ENVIRONMENTAL IMPLICATIONS

Carcinogenic Substances that cause cancer.

Mutagenic Substances that cause irreparable mutations in the DNA which will be transferred on to the next generation.

Toxic for reproduction Substances that damage reproductive systems.

PBT Substances that are persistent, bioaccumulative and toxic, meaning that they do not easily break down in nature, instead they build up in the environment, animals and humans with the potential to cause serious and long-term irreversible effects.

vPvB Substances that are very persistent and very bio-accumulative.

Equivalent concern Substances that are identified as equivalent level of concern, in terms of the potential damage they may cause, as the above listed categories.

EDC Endocrine Disrupting Chemicals are substances that disrupt or alter the hormonal systems in the body causing widespread effects throughout the organism.

PART 1: COMPANIES GLOBALLY (MSCI WORLD INDEX)

Number of SIN List and Candidate List substances produced. (Information about which SIN List substances can be found in the SIN List database at www.sinlist.org, by searching for company name.)

SECTOR: MATERIALS **INDUSTRY:** CHEMICALS

Region: Europe

Company name	ISIN	Number of SIN List substances*	Number of Candidate List substances**
AIR LIQUIDE	FR0000120073	1	0
Akzo Nobel	NL0000009132	9	3
ARKEMA	FR0010313833	9	6
BASF	DE000BASF111	45	18
Croda International	GB0002335270	2	1
DSM	NL0000009827	5	1
Givaudan	CH0010645932	1	0
ICL	IL0002810146	8	3
Johnson Matthey	GB00B70FPS60	8	4
Lanxess	DE0005470405	17	4
Linde	DE0006483001	1	0
Solvay Group	BE0003470755	15	7
Syngenta	CH0011037469	3	2
Umicore	BE0003884047	17	7
Yara	NO0010208051	2	0

Region: America

Company name	ISIN	Number of SIN List substances	Number of Candidate List substances
AGRIUM	CA0089161081	1	0
Air Products & Chemicals	US0091581068	6	2
Albemarle Corporation	US0126531013	11	6
Celanese	US1508701034	1	0
Dow Chemical Company	US2605431038	32	6
Du Pont	US2635341090	10	4
Eastman Chemical	US2774321002	7	0
Ecolab	US2788651006	3	2
International Flavors & Fragrances	US4595061015	2	1

* SIN List substances according to the 2.1 update in February 2013, in total 626 substances and substance groups

** Candidate List substances according to the ECHA update in December 2012, in total 138 substances

Continued from page 8, Region: America

Company name	ISIN	Number of SIN List substances	Number of Candidate List substances
LyondellBasell	NL0009434992	28	3
PPG Industries	US6935061076	3	2
Praxair	US74005P1049	1	0
Sigma-Aldrich	US8265521018	19	14

Region: Asia

Company name	ISIN	Number of SIN List substances	Number of Candidate List substances
Daicel Corporation	JP3485800001	1	0
Hitachi Chemical	JP3785000005	6	3
Kuraray	JP3269600007	5	1
Mitsubishi Gas Chemical	JP3896800004	1	0
Shin-Etsu Group	JP3371200001	2	1
Showa Denko	JP3368000000	4	0
Sumitomo Chemical	JP3401400001	1	0
Toray Group	JP3621000003	8	1

SECTOR: MATERIALS INDUSTRY: METALS & MINING

Region: Europe

Company name	ISIN	Number of SIN List substances	Number of Candidate List substances
ArcelorMittal	LU0323134006	1	1
Boliden	SE0000869646	4	1
Glencore International	JE00B4T3BW64	33	1
Rio Tinto Group	GB0007188757	4	4
Xstrata	GB0031411001	5	3

Region: America

Company name	ISIN	Number of SIN List substances	Number of Candidate List substances
Alcoa	US0138171014	2	1
Freeport McMoRan Copper & Gold	US35671D8570	1	1
United States Steel	US9129091081	1	1

SECTOR: ENERGY**INDUSTRY:** OIL, GAS & CONSUMABLE FUELS**Region:** Europe

Company name	ISIN	Number of SIN List substances	Number of Candidate List substances
BP	GB0007980591	63	0
Eni	IT0003132476	65	1
Galp Energia Group	PTGAL0AM0009	36	0
Neste Oil	FI0009013296	30	0
OMV	AT0000743059	52	0
Repsol	ES0173516115	60	2
Royal Dutch Shell	GB00B03MM408	99	4
Statoil	NO0010096985	34	0
TOTAL	FR0000120271	74	1

Region: America

Company name	ISIN	Number of SIN List substances	Number of Candidate List substances
Chevron Corporation	US1667641005	32	3
ConocoPhillips	US20825C1045	1	0
ExxonMobil	US30231G1022	83	3
Hess Corporation	US42809H1077	3	0
Occidental Petroleum	US6745991058	2	0
Phillips 66	US7185461040	44	2
Valero Energy	US91913Y1001	20	0

Region: Asia

Company name	ISIN	Number of SIN List substances	Number of Candidate List substances
Idemitsu Kosan Co.	JP3142500002	1	0

SECTOR: ENERGY**INDUSTRY:** ENERGY EQUIPMENT & SERVICES**Region:** America

Company name	ISIN	Number of SIN List substances	Number of Candidate List substances
Baker Hughes	US0572241075	3	2
Halliburton	US4062161017	3	1

SECTOR: UTILITIES**INDUSTRY:** ELECTRIC UTILITIES / MULTI-UTILITIES**Region:** Europe

Company name	ISIN	Number of SIN List substances	Number of Candidate List substances
Enel	IT0003128367	1	0
Fortum	FI0009007132	1	0
RWE	DE0007037129	3	0

SECTOR: INFORMATION TECHNOLOGY**Region:** America

Company name	Industry	ISIN	Number of SIN List substances	Number of Candidate List substances
Hewlett-Packard	Computers & Peripherals	US4282361033	1	0
Xerox	Office Electronics	US9841211033	2	0

Region: Asia

Company name	Industry	ISIN	Number of SIN List substances	Number of Candidate List substances
FUJIFILM Corporation	Electronic Equipment, Instruments & Components	JP3814000000	2	1
Kyocera	Electronic Equipment, Instruments & Components	JP3249600002	1	0
Murata Manufacturing	Electronic Equipment, Instruments & Components	JP3914400001	1	1
TDK Corporation	Electronic Equipment, Instruments & Components	JP3538800008	1	0



SECTOR: INDUSTRIALS**Region: Europe**

Company name	Industry	ISIN	Number of SIN List substances	Number of Candidate List substances
Brenntag	Trading Companies & Distributors	DE000A1DAH0	2	2
Safran	Aerospace & Defense	FR0000073272	2	0
Saint-Gobain	Building Products	FR0000125007	2	1
Sandvik Group	Machinery	SE0000667891	1	0

Region: America

Company name	Industry	ISIN	Number of SIN List substances	Number of Candidate List substances
3M	Industrial Conglomerates	US88579Y1010	10	3
Avery Dennison Corporation	Commercial Services & Supplies	US0536111091	2	0
Cummins	Machinery	US2310211063	1	1
General Electric	Industrial Conglomerates	US3696041033	3	0
Honeywell International	Aerospace & Defense	US4385161066	10	6
Illinois Tool Works	Machinery	US4523081093	3	1

Region: Asia

Company name	Industry	ISIN	Number of SIN List substances	Number of Candidate List substances
GS Yuasa	Electrical Equipment	JP3385820000	1	1
ITOCHU	Trading Companies & Distributors	JP3143600009	1	1
Marubeni Corporation	Trading Companies & Distributors	JP3877600001	1	0
Mitsubishi Corporation	Trading Companies & Distributors	JP3898400001	1	0
Mitsui & Co	Trading Companies & Distributors	JP3893600001	5	0
Noble Group	Trading Companies & Distributors	BMG6542T1190	8	0
Sojitz Group	Trading Companies & Distributors	JP3663900003	1	1
Sumitomo Corporation	Trading Companies & Distributors	JP3404600003	3	0
Toyota Tsusho	Trading Companies & Distributors	JP3635000007	3	1

SECTOR: CONSUMER**Region: Europe**

Company name	Industry	ISIN	Number of SIN List substances	Number of Candidate List substances
Michelin	Auto Components	FR0000121261	5	1
Carrefour	Food & Staples Retailing	FR0000120172	1	0
Henkel	Household Products	DE0006048408	12	4
Tate & Lyle	Food Products	GB0008754136	1	0
Unilever	Food Products	NL0000388619 / GB00B10RZP78	2	1

Region: America

Company name	Industry	ISIN	Number of SIN List substances	Number of Candidate List substances
Johnson Controls	Auto Components	US4783661071	1	1
Newell Rubbermaid	Household Durables	US6512291062	1	0

Region: Asia

Company name	Industry	ISIN	Number of SIN List substances	Number of Candidate List substances
Panasonic	Household Durables	JP3866800000	1	0
Kao Group	Personal Products	JP3205800000	2	0

SECTOR: HEALTH CARE**Region: Europe**

Company name	Industry	ISIN	Number of SIN List substances	Number of Candidate List substances
Bayer	Pharmaceuticals	DE000BAY0017	11	4
Covidien	Health Care Equipment & Supplies	IE00B68SQD29	1	0
Lonza Group	Life Sciences Tools & Services	CH0013841017	2	1
Merck KGaA	Pharmaceuticals	DE0006599905	5	4
Novartis	Pharmaceuticals	CH0012005267	1	1

Region: America

Company name	Industry	ISIN	Number of SIN List substances	Number of Candidate List substances
Baxter International	Health Care Equipment & Supplies	US0718131099	1	1
Becton Dickinson	Health Care Equipment & Supplies	US0758871091	1	0
Life Technologies	Life Sciences Tools & Services	US53217V1098	2	2

PART 2: EUROPEAN CHEMICAL COMPANIES (STOXX® ALL EUROPE 800 CHEMICALS INDEX)

Number of SIN List and Candidate List substances produced

Company name	Revenue in m EUR (2011)	Number of SIN List substances*	Number of Candidate List substances**
BASF	73.497	45	18
Umicore	2.290	17	7
Lanxess	8.775	17	4
Solvay	7.638	15	7
Clariant	6.062	14	9
Bayer	36.528	11	4
Arkema	5.900	9	6
Akzo Nobel	15.697	9	3
Johnson Matthey	11.953	8	4
Kemira	2.207	5	2
DSM	9.048	5	1
Wacker Chemie	4.910	4	2
Syngenta	10.254	3	2
Elementis	587	3	1
Brenntag	8.679	2	2
Croda International	1.279	2	1
Yara	10.363	2	0
Air Liquide	14.457	1	0
Givaudan	3.221	1	0
Linde	13.787	1	0
Symrise	1.584	1	0
EMS Chemie	1.658	0	0
Fuchs Petrolub	1.668	0	0
Hexpol	808	0	0
K + S	5.151	0	0
Uralkali	2.702	0	0
Victrex	257	0	0

* SIN List substances according to the 2.1 update in February 2013, in total 626 substances and substance groups

** Candidate List substances according to the ECHA update in December 2012, in total 138 substances

Air Liquide

www.airliquide.com

France

Subsector: Commodities Chemicals

Revenue: 14.457 m EUR

ISIN: FR0000120073

Employees: 46.200

Reuters: AIR.PA

Bloomberg: AI FP

Air Liquide SA, through its subsidiaries, produces, markets, and sells industrial and healthcare gases worldwide. These gases include liquid nitrogen, argon, carbon dioxide, and oxygen. The company also produces welding equipment, diving equipment, and technical-medical equipment. Air Liquide sells its products throughout Europe, the United States, Canada, Africa, and Asia. (source: Bloomberg)

Produces/imports the following 1 SIN List substance and 0 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
Carbon monoxide	630-08-0		Toxic for reproduction



Akzo Nobel

www.akzonobel.com

Netherlands

Subsector: Specialty Chemicals

Revenue: 15.697 m EUR

ISIN: NL000009132

Employees: 57.200

Reuters: AKZO.AS

Bloomberg: AKZA NA

Akzo Nobel N.V. produces and markets chemicals, coatings, and paints. The company's products include surfactants, polymer chemicals, pulp and paper chemicals, as well as lacquers and varnishes. (source: Bloomberg)

Produces/imports the following 9 SIN List substances and 3 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
1-chloro-2,3-epoxypropane	106-89-8		Carcinogenic
2,3-epoxypropyltrimethylammonium chloride	3033-77-0		Carcinogenic
Acrylamide	79-06-1	✓	Carcinogenic; Mutagenic
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic
Formaldehyde	50-00-0		Equivalent concern
Lead tetraacetate	546-67-8		Toxic for reproduction
Methyloxirane	75-56-9	✓	Carcinogenic; Mutagenic
Nonylphenol, branched, ethoxylated	68412-54-4		Equivalent concern/EDC
Sodium dichromate	10588-01-9	✓	Carcinogenic; Toxic for reproduction; Mutagenic

ARKEMA

www.arkema.com

France

Subsector: Commodities Chemicals

Revenue: 5.900 m EUR

ISIN: FR0010313833

Employees: 15.776

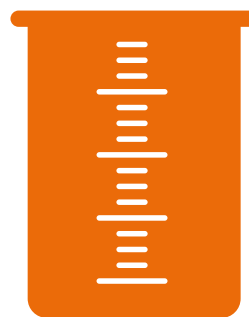
Reuters: AKE.PA

Bloomberg: AKE FP

Arkema manufactures a wide range of chemicals. The company manufactures both generic and brand name chemicals. (source: Bloomberg)

Produces/imports the following 9 SIN List substances and 6 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
1,2-dichloroethane	107-06-2	✓	Carcinogenic
Bis(2-ethylhexyl) phthalate; DEHP	117-81-7	✓	Toxic for reproduction
Chloroethylene	75-01-4		Carcinogenic
Dibutyltin dichloride	683-18-1	✓	Toxic for reproduction
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic
Ethylene thiourea	96-45-7		Toxic for reproduction
Hydrazine	302-01-2	✓	Carcinogenic
Methyloxirane	75-56-9	✓	Carcinogenic; Mutagenic
Trichloroethylene	79-01-6	✓	Carcinogenic



BASF

www.basf.com

Germany

Subsector: Commodities Chemicals

Revenue: 73.497 m EU

ISIN: DE000BASF111

Employees: 111.141

Reuters: BASFn.DE

Bloomberg: BAS GR

BASF SE operates in six segments: Chemicals, Plastics, Performance Products, Functional Solutions, Agricultural Solutions and Oil & Gas. BASF offers products for the chemical, automotive, construction, agriculture, oil, plastics, electrical/electronics, furniture and paper industries, and provides a range of system solutions and services. (source: Bloomberg)

Produces/imports the following 45 SIN List substances and 18 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
[carbonato(2-)] tetrahydroxytrinickel	12607-70-4		Carcinogenic; Toxic for reproduction
1-chloro-2,3-epoxypropane	106-89-8		Carcinogenic
1,2-dichloroethane	107-06-2	✓	Carcinogenic
1,2-dimethoxyethane	110-71-4	✓	Toxic for reproduction
2-ethylhexyl 4-methoxycinnamate	5466-77-3		Equivalent concern/EDC
2-nitrotoluene	88-72-2		Carcinogenic; Mutagenic
4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	✓	Equivalent concern/EDC
4,4'-methylenedianiline, MDA	101-77-9	✓	Carcinogenic
Acrylamide	79-06-1	✓	Carcinogenic; Mutagenic
Acrylonitrile	107-13-1		Carcinogenic
Aniline	62-53-3		Equivalent concern
Aziridine	151-56-4		Carcinogenic; Mutagenic
Benzene	71-43-2		Carcinogenic; Mutagenic
Bis(2-methoxyethyl) ether	111-96-6	✓	Toxic for reproduction
Buta-1,3-diene	106-99-0		Carcinogenic; Mutagenic
Carbon monoxide	630-08-0		Toxic for reproduction
Chromium trioxide	1333-82-0	✓	Carcinogenic; Mutagenic
Diisononyl phthalate	28553-12-0		Equivalent concern/EDC
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic
Formaldehyde	50-00-0		Equivalent concern
Formamide	75-12-7	✓	Toxic for reproduction

BASF, continued from page 18.

Substance	CAS number	Present on Candidate List	Hazard classification
Hexabromocyclododecane	25637-99-4	✓	PBT/vPvB
Hydrocarbons, C4	87741-01-3		Carcinogenic; Mutagenic
Hydrocarbons, C4, steam-cracker distillate	92045-23-3		Carcinogenic; Mutagenic
Hydrocarbons, C5-rich	68476-55-1		Carcinogenic; Mutagenic
Lead chromate molybdate sulphate red	12656-85-8	✓	Carcinogenic; Toxic for reproduction
Lead monoxide	1317-36-8	✓	Toxic for reproduction
Lead sulfochromate yellow	1344-37-2	✓	Carcinogenic; Toxic for reproduction
Methyloxirane	75-56-9	✓	Carcinogenic; Mutagenic
N-methyl-2-pyrrolidone	872-50-4	✓	Toxic for reproduction
N-methylacetamide	79-16-3	✓	Toxic for reproduction
N,N-dimethylacetamide	127-19-5	✓	Toxic for reproduction
N,N-dimethylformamide	68-12-2	✓	Toxic for reproduction
Naphtha (petroleum), hydrotreated light	64742-49-0		Carcinogenic; Mutagenic
Naphtha (petroleum), light steam-cracked	64742-83-2		Carcinogenic; Mutagenic
Naphtha (petroleum), light steam-cracked arom.	68527-23-1		Carcinogenic; Mutagenic
Naphtha (petroleum), light straight-run	64741-46-4		Carcinogenic; Mutagenic
Naphtha (petroleum), solvent-refined light	64741-84-0		Carcinogenic; Mutagenic
Nickel dihydroxide	12054-48-7		Carcinogenic; Toxic for reproduction
Nickel dinitrate	13138-45-9		Carcinogenic; Toxic for reproduction
Nickel monoxide	1313-99-1		Carcinogenic
O-toluidine	95-53-4	✓	Carcinogenic
Styrene	100-42-5		Equivalent concern/EDC
Triclosan	3380-34-5		Equivalent concern/EDC
Trinickel disulphide	12035-72-2		Carcinogenic

Bayer

www.bayer.com

Germany

Subsector: Specialty Chemicals

ISIN: DE000BAY00

Reuters: BAYGn.DE

Bloomberg: BAYN GR

Revenue: 36.528 m EUR

Employees: 111.800

Bayer AG produces and markets healthcare and agricultural products, and polymers. The company manufactures products that include aspirin, antibiotics, anti-infectives, and cardiovascular, oncology, and central nervous system drugs, over-the-counter medications, diagnostics, animal health products, crop protection products, plastics, and polyurethanes. (*source: Bloomberg*)

Produces/imports the following 11 SIN List substances and 4 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
1,2-dichloroethane	107-06-2	✓	Carcinogenic
1,2,3-trichloropropane	96-18-4	✓	Carcinogenic; Toxic for reproduction
4,4'-methylenedianiline, MDA	101-77-9	✓	Carcinogenic
a-chlorotoluene	100-44-7		Carcinogenic
Aniline	62-53-3		Equivalent concern
Benzene	71-43-2		Carcinogenic; Mutagenic
Bisphenol A	80-05-7		Equivalent concern/EDC
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic
Formaldehyde	50-00-0		Equivalent concern
Methyloxirane	75-56-9	✓	Carcinogenic; Mutagenic
Styrene	100-42-5		Equivalent concern/EDC

Brenntag

www.brenntag.com

Germany

Subsector: Specialty Chemicals

Revenue: 8.679 m EUR

ISIN: DE000A1DAH0

Employees: 12.950

Reuters: BNRGn.DE

Bloomberg: BNR GR

Brenntag AG sells and distributes industrial and specialty chemicals. The company also develops and prepares specific chemical compounds and offers analysis services. Brenntag's customers include oil and gas, paint, cosmetic, pharmaceutical, and water treatment companies. *(source: Bloomberg)*

Produces/imports the following 2 SIN List substances and 2 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
Potassium dichromate	7778-50-9	✓	Carcinogenic; Toxic for reproduction; Mutagenic
Sodium dichromate	10588-01-9	✓	Carcinogenic; Toxic for reproduction; Mutagenic



Clariant

www.clariant.com

Switzerland

Subsector: Specialty Chemicals

ISIN: CH0012142631

Reuters: CLN.VX

Bloomberg: CLN VX

Revenue: 7.370 m CHF

Equivalent: 6.062 m EUR¹⁶

Employees: 22.149

Clariant AG develops, produces, markets and sells specialty chemical products. The company provides dyes and chemicals for the textile, leather and paper industries, pigments for the use in paints, printing inks, decorative paints, plastics, cosmetics, concentrated pigment and additive preparations for engineering plastics, spin dyeing, and packaging. (source: Bloomberg)

Produces/imports the following 14 SIN List substances and 9 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
[carbonato(2-)] tetrahydroxytrinickel	12607-70-4		Carcinogenic; Toxic for reproduction
1-chloro-2,3-epoxypropane	106-89-8		Carcinogenic
1,2-bis(2-methoxyethoxy)ethane	112-49-2	✓	Toxic for reproduction
1,2-dimethoxyethane	110-71-4	✓	Toxic for reproduction
2-methoxyethanol	109-86-4	✓	Toxic for reproduction
4,4'-methylenedianiline, MDA	101-77-9	✓	Carcinogenic
Acrylamide	79-06-1	✓	Carcinogenic; Mutagenic
Acrylonitrile	107-13-1		Carcinogenic
Bis(2-methoxyethyl) ether	111-96-6	✓	Toxic for reproduction
Chromium trioxide	1333-82-0	✓	Carcinogenic; Mutagenic
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic
N-methyl-2-pyrrolidone	872-50-4	✓	Toxic for reproduction
Nickel monoxide	1313-99-1		Carcinogenic
O-toluidine	95-53-4	✓	Carcinogenic

16. Using 2011 Year end currency rates, German Bundesbank http://www.bundesbank.de/Redaktion/DE/Downloads/Statistiken/Aussenwirtschaft/Devisen_Euro_Referenzkurs/stat_eurorefj.pdf?__blob=publicationFile

Croda International

www.croda.com

Great Britain

Subsector:	Specialty Chemicals	Revenue:	1.068 m GBP
ISIN:	GB0002335270	Equivalent:	1.279 m EUR
Reuters:	CRDA.L	Employees:	3.213
Bloomberg:	CRDA LN		

Croda International plc is the holding company for a group of companies that manufacture a diverse range of chemicals and chemical products, including oleochemicals and industrial chemicals. Croda supplies its items to companies that specialize in the personal care, pharmaceutical, plastics, food processing, nutrition, fire prevention, engineering and automotive industries. (source: Bloomberg)

Produces/imports the following 2 SIN List substances and 1 Candidate List substance:

Substance	CAS number	Present on Candidate List	Hazard classification
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic
Methyloxirane	75-56-9	✓	Carcinogenic; Mutagenic

DSM

www.dsm.com

Netherlands

Subsector:	Specialty Chemicals	Revenue:	9.048 m EUR
ISIN:	NL0000009827	Employees:	22.224
Reuters:	DSMN.AS		
Bloomberg:	DSM NA		

Koninklijke DSM is a global science-based company active in health, nutrition and materials. The company provides solutions that nourish, protect and improve performance in global markets such as food and dietary supplements, personal care, feed, pharmaceuticals, medical devices, automotive, paints, electrical and electronics, life protection, alternative energy and bio-based materials. (source: Bloomberg)

Produces/imports the following 5 SIN List substances and 1 Candidate List substance:

Substance	CAS number	Present on Candidate List	Hazard classification
2-ethylhexyl 4-methoxycinnamate	5466-77-3		Equivalent concern/EDC
Acrylonitrile	107-13-1		Carcinogenic
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic
Methyloxirane	75-56-9	✓	Carcinogenic; Mutagenic
Quinoline	91-22-5		Carcinogenic

Elementis

www.elementis.com

Great Britain

Subsector:	Specialty Chemicals	Revenue:	760 m USD
ISIN:	GB0002418548	Equivalent:	587 m EUR
Reuters:	ELM.L	Employees:	1.330
Bloomberg:	ELM LN		

Elementis plc is a global specialty chemicals company. The company comprises three businesses. Specialty Products produces rheology additives that enhance the flow characteristics of liquids in a wide range of applications, such as in coatings, cosmetics and oilfield drilling. Surfactants produces surface active ingredients. Chromium manufactures a range of chromium chemicals. (source: Bloomberg)

Produces/imports the following 3 SIN List substances and 1 Candidate List substance:

Substance	CAS number	Present on Candidate List	Hazard classification
Acrylonitrile	107-13-1		Carcinogenic
Chromium trioxide	1333-82-0	✓	Carcinogenic; Mutagenic
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic

EMS Chemie

www.ems-group.com / www.emschem.ch

Switzerland

Subsector:	Specialty Chemicals	Revenue:	1.658 m EUR
ISIN:	CH0016440353	Employees:	2.242
Reuters:	EMSN.S		
Bloomberg:	EMSN SW		

Ems-Chemie Holding AG manufactures and markets performance polymers, high-grade chemical intermediates, fine chemicals, and protective bonding, coating and sealing products. The company supplies its products to the automotive, transportation, and textile industries. (source: Bloomberg)

Produces/imports no SIN List substances and no Candidate List substances.

Fuchs Petrolub

www.fuchs-oil.de

Germany

Subsector: Specialty Chemicals

ISIN: DE0005790430

Reuters: FPEG.DE

Bloomberg: FPE GR

Revenue: 1.668 m EUR

Employees: 3.722

Fuchs Petrolub AG refines and produces industrial and automotive lubricants, hydraulic oils, and polishing products. The company also produces biodegradable oils. Fuchs manufactures and markets its products worldwide. *(source: Bloomberg)*

Produces/imports no SIN List substances and no Candidate List substances.

Givaudan

www.givaudan.com

Switzerland

Subsector: Specialty Chemicals

ISIN: CH0010645932

Reuters: GIVN.VX

Bloomberg: GIVN VX

Revenue: 3.915 m CHF

Equivalent: 3.221 m EUR

Employees: 8.913

Givaudan SA manufactures and markets fragrances and flavours from natural and synthetic ingredients. The company sells its products to manufacturers of perfumes, beverages, prepared foods, and consumer goods. Givaudan operates worldwide. *(source: Bloomberg)*

Produces/imports the following 1 SIN List substance and 0 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
Galaxolide	1222-05-5		Equivalent concern/EDC



Hexpol

www.hexpol.com

Sweden

Subsector:	Specialty Chemicals	Revenue:	7.197 m SEK
ISIN:	SE0002452623	Equivalent:	808 m EUR
Reuters:	HPOLb.ST	Employees:	3.015
Bloomberg:	HPOLB SS		

Hexpol AB manufactures rubber, plastic and polyurethane components primarily for the automotive, construction, cabling, water treatment, pharmaceutical, energy, and oil industries. (*source: Bloomberg*)

Produces/imports no SIN List substances and no Candidate List substances.

Johnson Matthey

www.matthey.com

Great Britain

Subsector:	Specialty Chemicals	Revenue:	9.984 m GBP
ISIN:	GB00B70FPS60	Equivalent:	11.953 m EUR
Reuters:	JMAT.L	Employees:	9.742
Bloomberg:	JMAT LN		

Johnson Matthey PLC is a specialty chemicals company which manufactures catalysts, pharmaceutical materials, and pollution control systems. The company also refines platinum, gold and silver, and produces colour and coating materials for the glass, ceramics, tile, plastics, paint, ink, and construction industries. Johnson Matthey has operations around the world. (*source: Bloomberg*)

Produces/imports the following 8 SIN List substances and 4 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
[carbonato(2-)] tetrahydroxytrinickel	12607-70-4		Carcinogenic; Toxic for reproduction
Chromium trioxide	1333-82-0	✓	Carcinogenic; Mutagenic
Cobalt carbonate	513-79-1	✓	Carcinogenic; Toxic for reproduction
Cobalt nitrate	10141-05-6	✓	Carcinogenic; Toxic for reproduction
Nickel dinitrate	13138-45-9		Carcinogenic; Toxic for reproduction
Nickel monoxide	1313-99-1		Carcinogenic
Pyrochlore, antimony lead yellow	8012-00-8	✓	Toxic for reproduction
Trinickel disulphide	12035-72-2		Carcinogenic

K + S

www.k-plus-s.com

Germany

Subsector:	Specialty Chemicals	Revenue:	5.151 m EUR
ISIN:	DE000KSAG888	Employees:	14.496
Reuters:	SDFGn.DE		
Bloomberg:	SDFG IX		

K+S AG manufactures and markets within the fertilizer division standard and speciality fertilizers for the agricultural and industrial sectors worldwide. In its salt business, the company produces de-icing salt, food grade salt, industrial salt and salt for chemical use. (source: Bloomberg)

Produces/imports no SIN List substances and no Candidate List substances.

Kemira

www.kemira.com

Finland

Subsector:	Specialty Chemicals	Revenue	2.207 m EUR
ISIN:	FI0009004824	Employees:	5.006
Reuters:	KRA1V.HE		
Bloomberg:	KEM LI		

Kemira Oyj a global water chemistry company serving customers in water-intensive industries. The company offers chemical products and integrated systems that help customers in the water-intensive pulp and paper industry, water treatment chemicals for municipalities and industrial customers, and chemical extraction and process solutions for oil and mining industries. (source: Bloomberg)

Produces/imports the following 5 SIN List substances and 2 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
1-chloro-2,3-epoxypropane	106-89-8		Carcinogenic
Acrylamide	79-06-1	✓	Carcinogenic; Mutagenic
Acrylonitrile	107-13-1		Carcinogenic
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic
Formamide	75-12-7	✓	Toxic for reproduction

Lanxess

www.lanxess-europe.de

Germany

Subsector: Commodities Chemicals

Revenue: 8.775 m EUR

ISIN: DE0005470405

Employees: 16.390

Reuters: LXSG.DE

Bloomberg: LXS GR

Lanxess AG is a specialty chemicals company. The company's core business is the development, manufacturing, and marketing of plastics, rubber, intermediates, and specialty chemicals. (source: Bloomberg)

Produces/imports the following 17 SIN List substances and 4 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
1,2-dichlorobenzene	95-50-1		Equivalent concern
2-chlorobuta-1,3-diene	126-99-8		Carcinogenic
2-nitrotoluene	88-72-2		Carcinogenic; Mutagenic
a-chlorotoluene	100-44-7		Carcinogenic
Acrylonitrile	107-13-1		Carcinogenic
Aniline	62-53-3		Equivalent concern
Buta-1,3-diene	106-99-0		Carcinogenic; Mutagenic
Chromium trioxide	1333-82-0	✓	Carcinogenic; Mutagenic
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5		Carcinogenic
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7		Carcinogenic
Formaldehyde	50-00-0		Equivalent concern
Hydrazine	302-01-2	✓	Carcinogenic
Isoprene	78-79-5		Carcinogenic
Naphtha (petroleum), hydrotreated light	64742-49-0		Carcinogenic; Mutagenic
O-toluidine	95-53-4	✓	Carcinogenic
Sodium dichromate	10588-01-9	✓	Carcinogenic; Toxic for reproduction; Mutagenic
Styrene	100-42-5		Equivalent concern/EDC

Linde

www.linde.com

Germany

Subsector: Commodities Chemicals

Revenue: 13.787 m EUR

ISIN: DE0006483001

Employees: 50.417

Reuters: LING.DE

Bloomberg: LIN GR

Linde AG is a gases and engineering company. The Gases Division offers a wide range of industrial and medical gases mainly used in the energy sector, steel production, chemical processing, as well as in food processing. The Engineering Division develops olefin plants, natural gas plants and air separation plants, as well as hydrogen and synthesis gas plants. (*source: Bloomberg*)

Produces/imports the following 1 SIN List substance and 0 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
Carbon monoxide	630-08-0		Toxic for reproduction



Solvay

www.solvay.com

Belgium

Subsector: Specialty Chemicals

Revenue: 7.638 m EUR

ISIN: BE0003470755

Employees: 29.121

Reuters: SOLB.BR

Bloomberg: SOLB BB

Solvay SA manufactures chemicals and plastics. The company produces soda ash, sodium bicarbonate, hydrogen peroxide, fluorinated products, disinfectants, chlorine, caustic soda, salt, specialty polymers, vinyls, polyvinyl chloride, fuel systems, and pipes and fittings. (*source: Bloomberg*)

Produces/imports the following 15 SIN List substances and 7 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
1-chloro-2,3-epoxypropane	106-89-8		Carcinogenic
1,2-dichloroethane	107-06-2	✓	Carcinogenic
1,2,3-trichloropropane	96-18-4	✓	Carcinogenic; Toxic for reproduction
4,4'-methylenedianiline, MDA	101-77-9	✓	Carcinogenic
4,4'-oxydianiline	101-80-4	✓	Carcinogenic; Mutagenic
Bisphenol A	80-05-7		Equivalent concern/EDC
Buta-1,3-diene	106-99-0		Carcinogenic; Mutagenic
Chloroethylene	75-01-4		Carcinogenic
Dichromium tris(chromate)	24613-89-6	✓	Carcinogenic
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic
Methyloxirane	75-56-9	✓	Carcinogenic; Mutagenic
N-methyl-2-pyrrolidone	872-50-4	✓	Toxic for reproduction
Naphtha (petroleum), full-range straight-run	64741-42-0		Carcinogenic; Mutagenic
Perboric acid, sodium salt	11138-47-9		Toxic for reproduction
Perchloroethylene; tetrachloroethylene	127-18-4		Equivalent concern/EDC

Symrise

www.symrise.com

Germany

Subsector:	Specialty Chemicals	Revenue:	1.584 m EUR
ISIN:	DE000SYM9999	Employees:	5.434
Reuters:	SY1GE.DE		
Bloomberg:	SY1 GR		

Symrise AG is a diversified chemical manufacturer. The company produces perfume oils, fragrance bases, cosmetic raw materials and ingredients, plant extracts, aroma chemicals, flavourings, fruit powders, and seasonings. Symrise's customers manufacture fragrances, cosmetics, soaps, hair care products, detergents, household products, foods, beverages, and pharmaceuticals. (source: Bloomberg)

Produces/imports the following 1 SIN List substance and 0 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
2-ethylhexyl 4-methoxycinnamate	5466-77-3		Equivalent concern/EDC

Syngenta

www.syngenta.com

Switzerland

Subsector:	Specialty Chemicals	Revenue:	13.268 m USD
ISIN:	CH0011037469	Equivalent:	10.254 m EUR
Reuters:	SYNN.VX	Employees:	26.000
Bloomberg:	SYNN VX		

Syngenta AG produces crop protection products and seeds. The company produces herbicides, insecticides and fungicides, and seeds for field crops, vegetables, and flowers. (source: Bloomberg)

Produces/imports the following 3 SIN List substances and 2 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
Ethylene oxide	75-21-8		Carcinogenic; Mutagenic
Methyloxirane	75-56-9	✓	Carcinogenic; Mutagenic
N,N-dimethylformamide	68-12-2	✓	Toxic for reproduction

Umicore

www.umicore.com

Belgium

Subsector: Specialty Chemicals

Revenue: 2.290 m EUR

ISIN: BE0003884047

Employees: 14.572

Reuters: UMI.BR

Bloomberg: UMI BB

Umicore SA is a materials technology company. The company operates in advanced materials, precious metal products and catalysts, along with zinc specialties. Umicore has industrial operations on all continents. (*source: Bloomberg*)

Produces/imports the following 17 SIN List substances and 7 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
[carbonato(2-)] tetrahydroxytrinickel	12607-70-4		Carcinogenic; Toxic for reproduction
Cadmium	7440-43-9		Carcinogenic
Cobalt acetate	71-48-7	✓	Carcinogenic; Toxic for reproduction
Cobalt carbonate	513-79-1	✓	Carcinogenic; Toxic for reproduction
Cobalt dichloride	7646-79-9	✓	Carcinogenic; Toxic for reproduction
Cobalt nitrate	10141-05-6	✓	Carcinogenic; Toxic for reproduction
Cobalt sulphate	10124-43-3	✓	Carcinogenic; Toxic for reproduction
Diarsenic trioxide	1327-53-3	✓	Carcinogenic
Lead Lead dichloride Lead monoxide	7439-92-1 7758-95-4 1317-36-8	✓	Toxic for reproduction
Nickel bis(2-ethylhexanoate)	4454-16-4		Carcinogenic; Toxic for reproduction
Nickel bis(sulfamidate), nickel sulfamate	13770-89-3		Carcinogenic; Toxic for reproduction
Nickel di(acetate)	373-02-4		Carcinogenic; Toxic for reproduction
Nickel dichloride	7718-54-9		Carcinogenic; Toxic for reproduction
Nickel dihydroxide	12054-48-7		Carcinogenic; Toxic for reproduction
Nickel dinitrate	13138-45-9		Carcinogenic; Toxic for reproduction
Nickel monoxide	1313-99-1		Carcinogenic
Nickel sulphate	7786-81-4		Carcinogenic; Toxic for reproduction

Uralkali

www.uralkali.com

Russia

Subsector:	Specialty Chemicals	Revenue:	3.496 m USD
ISIN:	RU0007661302	Equivalent:	2.702 m EUR
Reuters:	URKA.RTS	Employees:	12.500
Bloomberg:	URKA RU		

Uralkali OJSC produces potash. The company operates mines and ore-treatment mills in the Perm Territory, Russia. Uralkali extracts and processes potassium ore and sells standard and granular muriate of potash for the agriculture and chemical industries. The company's main markets include Brazil, India, China, Southeast Asia, Russia, the United States, and Europe. *(source: Bloomberg)*

Produces/imports no SIN List substances and no Candidate List substances.

Victrex

www.victrex.com

Great Britain

Subsector:	Specialty Chemicals	Revenue:	215 m GBP
ISIN:	GB0009292243	Equivalent:	257 m EUR
Reuters:	VCTX.L	Employees:	552
Bloomberg:	VCT LN		

Victrex plc manufactures and sells a thermoplastic, under the trade mark PEEK. Their PEEK products are used primarily by compounders and processors, in order to manufacture products in a range of industrial applications. *(source: Bloomberg)*

Produces/imports no SIN List substances and no Candidate List substances.



Wacker Chemie

www.wacker.com

Germany

Subsector: Specialty Chemicals

ISIN: DE000WCH8881

Reuters: WCHG.DE

Bloomberg: WCH GR

Revenue: 4.910 m EUR

Employees: 17.168

Wacker Chemie AG is a globally active chemical company with a wide range of specialty chemical products. The company's products include hyperpure polysilicon for the electronics and solar industries, semiconductor wafers, a broad range of silicones, vinyl acetate based polymers, and biotech products. (*source: Bloomberg*)

Produces/imports the following 4 SIN List substances and 2 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
Acrylamide	79-06-1	✓	Carcinogenic; Mutagenic
Buta-1,3-diene	106-99-0		Carcinogenic; Mutagenic
Methyloxirane	75-56-9	✓	Carcinogenic; Mutagenic
Octamethylcyclotetrasiloxane	556-67-2		Equivalent concern/EDC

Yara

www.yara.com

Norway

Subsector: Specialty Chemicals

ISIN: NO0010208051

Reuters: YAR.OL

Bloomberg: YAR NO

Revenue: 80.352 m NOK

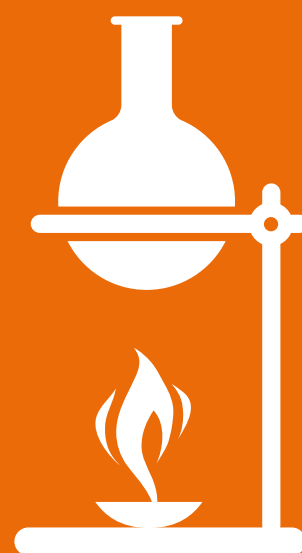
Equivalent: 10.363 m EUR

Employees: 7.627

Yara International ASA produces, distributes, and sells nitrogen-based mineral fertilizers and related industrial products. The company also distributes and sells a range of phosphate and potash-based mineral fertilizers, as well as complex and specialty mineral fertilizer products. (*source: Bloomberg*)

Produces/imports the following 2 SIN List substances and 0 Candidate List substances:

Substance	CAS number	Present on Candidate List	Hazard classification
Carbon monoxide	630-08-0		Toxic for reproduction
Nonylphenol, branched, ethoxylated	68412-54-4		Equivalent concern/EDC



CHEMSEC – THE ORGANISATION BEHIND THE SIN LIST

ChemSec (the International Chemical Secretariat) is a non-profit organisation working for a world free of hazardous chemicals. ChemSec strives to bridge the gap between decision-makers, science, and industry, working with a wide range of stakeholders offering expertise and guidance on chemical management policies.

We work to influence and speed up legislative processes – within the EU and around the world. We collaborate with progressive multinational companies to show that substituting hazardous chemicals with safer alternatives is both scientifically and economically feasible.

Encouraging investors to invest in the production and use of safer alternatives instead of risking profits by investing in companies that produce and use hazardous chemicals is another core part of our work. All of our work is geared to stimulating public debate and action on the necessary steps towards a less toxic world.

The SIN Producer List for Investors is available online at www.chemsec.org. Information about all producers and importers of SIN List chemicals can be searched for in the SIN List database available at sinlist.org.

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