INFRALEUNA

Leuna Chemical Complex

INFORMATION OF THE PUBLIC

in accordance with § 11 of the Accident Regulation



ALBERDINGK BOLEY ARKEMA DOW GERLING HOLZ+CO the chemical gas specialist greiner innospec

iqony LCP leuna harze LEUNA Polyamid GmbH Linde MINASCENT CHALLENGING CHEMISTRY

Quadrimex Sulfur Chemicals Shell Catalysts & Technologies EASTMAN TOPAS Advanced Polymers TotalEnergies UPM Vantage

Information about the correct behaviour in case of an incident

at the Leuna Chemical Complex

Recognising a dangerous situation



1 Minute

- Smell of fire or gas
- Smoke plume or fire
- Loud bang, explosive noises
- Siren alarm: one minute up and decongestant howling
- Warning App: note warnings in NINA

Safety instructions



- Keep calm!
- Follow the instructions of emergency responders.
- Pay attention to public address announcements from the police and fire department!



- Turn on your radio, TV, and smartphone.
- Reports of an incident, safety guidelines, and all-clear announcements are broadcast via traffic reports, regional radio stations (MDR 1 Radio Sachsen-Anhalt 100,8 MHz and 106,5 MHz, MDR Aktuell 95,3 MHz, MDR Sputnik 104,4 MHz, Radio SAW 103,3 MHz, Rockland 93,3 MHz, Radio Brocken 93,5 MHz), and television, as well as through the NINA alert app.



- Stay indoors.
- Ascertain that all children are indoors, alert your immediate neighbors.
- Help people with disabilities and elderly people.
- Help others an let them into your home.
- If you are travelling by car, stay in the car, close all the windows, and switch off the ventilation, air conditioning and engine.



- Close windows and doors (also in the basement).
- Move to the upper floor. Gases usually spread along the floor, so rooms on higher levels offer better protection.
- Switch off air-conditioning and ventilation systems, heating systems and stoves.
- Avoid sparks (or switching on electrical appliances) and do not light any open flames (matches, lighters, etc.).
- Have wet cloths to hand. Irritation and breathing difficulties can be reduced by holding damp cloths over the mouth and nose.



- **Only call the police, fire brigade or other emergency services in an emergency.**
- The telephone lines are needed for emergency and rescue operations.
- If your health has been affected, call your doctor or the medical emergency.
- Do not leave your home or vehicle until the all-clear has been given.

Important phone numbers

Control center of the site security/ fire brigade	+49 3461 43-4333
Info-telephone of the Leuna Chemical Complex	+49 3461 43-96920
Integrated Control Center Saalekreis (District Control Center)	+49 3461 40-1255

Table of contents

	Page
Preamble	II
ALBERDINGK BOLEY GmbH, Plant Leuna	1
ARKEMA GmbH	2
Dow Olefinverbund GmbH	3
GHC Gerling, Holz & Co. Handels GmbH	4
Greiner GmbH	5
InfraLeuna GmbH	6
Innospec Leuna GmbH	7
Iqony RKB Raffinerie-Kraftwerks-Betriebs GmbH	8
LCP Leuna Carboxylation Plant GmbH	9
LEUNA-Harze GmbH	10
LEUNA - Polyamid GmbH	11
Linde GmbH Division Linde Gas Linde Gas Produktionsgesellschaft mbH & Co. KG Hydromotive GmbH & Co. KG	12
MinAscent Leuna Production GmbH	13
Quadrimex Sulfur Chemicals GmbH	14
Shell Catalysts & Technologies Leuna GmbH	15
Taminco Germany GmbH (Eastman)	16
TOPAS Advanced Polymers GmbH	17
TotalEnergies Raffinerie Mitteldeutschland GmbH	18
UPM Biochemicals GmbH	19
Vantage Leuna GmbH	20
Date of last on-site inspections	III
Company overview	IV

Dear citizens of Leuna, Merseburg und Spergau,

the chemical industry has a long tradition in Saxony-Anhalt. This tradition also comes with a sense of responsibility. Before you is a brochure intended to inform the public, prepared by companies at the Leuna chemical site in accordance with the Major Accidents Ordinance. This ordinance requires operators of facilities subject to major accident regulations to inform all individuals and all public-access facilities that could be affected by a major accident about safety measures and the proper course of action.

Here at the Leuna chemical site, the operators of major-accident-hazard areas and InfraLeuna GmbH, as the responsible infrastructure service provider, have decided – in the interest of clarity and comprehensibility – to fulfill the obligation to provide information in a joint informational brochure. Such an information brochure is both sensible and necessary in such a large chemical industry complex. Accordingly, the purpose of the brochure is to inform citizens and institutions in the towns and municipalities located in the immediate vicinity of the Leuna chemical site about measures for preventive hazard avoidance and about emergency response measures in the event of an unlikely, yet still possible, incident.

The events outlined here are intended to illustrate that measures to prevent major accidents and defensive measures are given special priority in the corporate philosophy of the affected companies. This ensures that operations in areas at risk of major accidents are conducted to a very high safety standard and that such events are unlikely to occur. If an incident cannot be completely ruled out (“contingent incident”), the affected companies have taken all technical, organizational, and other precautions to immediately respond to and largely contain such a “contingent incident” at any time.

In particular, the information on how to respond to incidents at the Leuna chemical site, which is presented on the last page of this brochure, should be always kept available. In providing this brochure, the publishers ask that you remember it in the event of an incident and follow the recommended actions.

A successful neighborhood is one where we live together in harmony. If you would like to share any comments, suggestions, or criticisms with us, please feel free to forward them to the contact persons listed in the brochure. In closing, I would like to emphasize on behalf of the company that we consciously accept the responsibility to ensure the chemical site, the region, and the environment are managed safely and sustainably.

InfraLeuna GmbH
Dr. Christof Günther
Managing Director



ALBERDINGK BOLEY GmbH
Plant Leuna
Am Haupttor
Gebäude 6101
06237 Leuna

ALBERDINGK BOLEY GmbH operates three plants in Germany, one in Leuna since 2018. The chemical facility is designed to manufacture dispersions on three production lines at the Leuna Chemical Site. The plant in Leuna was established in 1996 and started production in 1997, today with 38 employees and 4 trainees.

Synthetic dispersions are produced using the emulsion polymerization process and are basic substances for the paint and construction industry besides the adhesive market.

The various substances used for the operation of the plant as well as the intermediate and finished products are stored with-in the plant. The plant is subject to the application of the Accident Regulations (so called SEVESO Regulation). The authorities were notified in 2017 in accordance with Section 7 (1) of the Major Accidents Ordinance (StörfallV). The manufacturing processes are partly operated under increased pressure and temperature and are therefore subject to very strict safety regulations.
Independent experts have examined the concept documents regarding the prevention of accidents and the safety reports of ALBERDINGK BOLEY GmbH. Considering the relevant substances, environmental and operational hazards, described in the safety report and the relevant measures to prevent incidences, it can be said that the plant does not represent a serious hazardous risk.

We have a contractual agreement with the professional fire brigade of InfraLeuna to undertake all necessary tasks of preventative fire protection and operative hazard prevention.

If there should be an accident despite all these safety measures the release of the following substances could not be excluded and may reach the neighboring vicinity:

Substances	characteristics
In case of fire	
Fumes (smoke)	hazardous to health with toxic components
Liquids:	
Styrene	hazardous to health
Acrylates	flammable, hazardous to environment
Acids and Bases	corrosive, flammable, hazardous to environment
Other raw materials	toxic, corrosive, flammable, hazardous to environment

For further information about the company please call +49 3461 43-930.

ALBERDINGK BOLEY GmbH I Plant Leuna
Stefan Münch
Plant Manager

ARKEMA GmbH
Subsidiary Leuna
Am Haupttor
Gebäude 2410
06237 Leuna

ARKEMA GmbH operates inside the area of the Leuna Chemical Site a unit for the manufacturing of hydrogen peroxide in aqueous solutions. Hydrogen peroxide is a very environmentally attractive substance that releases oxygen when decom-posing, and only water remains when reacting with oxidizing substances. Main applications are its use as bleaching agent in pulp and paper industries, as oxidizer in chemical industries as well as a disinfectant in food and pharmaceutical industries.

In the manufacturing process for hydrogen peroxide, a so-called working-solution is used as a media for the reaction of hydrogen with atmospheric oxygen to form hydrogen peroxide. The working solution is composed of different solvents and con-verted in successive process steps with hydrogen and atmospheric oxygen. An aqueous solution of Hydrogen peroxide is formed by a scrubbing process for further cleaning and separation of the working solution. Eventually rail tank cars or road tankers allow dispatching the final product to our customers.

Another on-site company supplies the raw material hydrogen by pipe.
The ARKEMA site must comply with the German Hazardous Incidents Ordinance.

ARKEMA operates its facility at Leuna with a periodically reviewed and updated holistic management system for health and safety, environmental protection, energy management and quality that is eventually validated by external certification bodies. Our management guidelines and defined organization are characterized by an alignment to permanent compliance to authorized normal operation. Based on methodical safety analyses all process operations, associated activities have been assessed for their risk potential and sustainable mitigation actions have been implemented. All safety measures are
documented in written detail and duly submitted to the competent authorities. Our internal alarm and emergency danger plans have been agreed with the competent authorities and the safety responsible of the Leuna platform.

Under contractual agreement, the professional fire brigade of InfraLeuna GmbH is responsible for preventive fire protection and operational emergency response.

Hazardous incident relevant substances are:

Substances	characteristics
Hydrogen	highly flammable gas, able to form explosive atmospheres with air
Working solution	environmentally hazardous, specific target organ toxicity
Aqueous hydrogen peroxide solution	oxidizing, corrosive effects, may cause respiratory irritation
Methanol Nitric Acid	highly flammable liquid, severe toxicity oxidizing, corrosive effects, acute toxicity, corrosive to the respiratory tract
Fumes / fire gases	harmful

Contact person for neighborhood information
Plant Manager: Mr. Dr. Dirk Häntzschel phone +49 3461 43-4960
Production Manager: Mrs. Dr. Sabine Herbst phone +49 3461 43-3918

ARKEMA GmbH I Subsidiary Leuna
Dr. Dirk Häntzschel
Plant Manager

Dow Olefinverbund GmbH
Plant Leuna
Am Haupttor
Gebäude 3803
06237 Leuna

Dow Olefinverbund GmbH operates two synthesis plants at the Leuna plant to produce plastics (polyethylene) by chemical conversion of ethene.

The products are the basis for the plastics processing industry and are used, for example, in the packaging industry, but also in the manufacture of hygiene articles and cables.

According to § 2 No. 1 of the 12th BImSchV (Ordinance on Major Accidents), the plants represent a lower-class operating area.
The operating permits have been issued by the responsible authority. Environmental protection, occupational safety and plant safety are of paramount importance for the continuous operation of the plants.
As part of our integrated management system, which is certified to ISO 9001, ISO 14001 and ISO 50001, among others, all necessary measures have been taken to prevent the occurrence of incidents or to minimize their effects.

To this end, the necessary hazard prevention plans, and safety reports are in place and are reviewed regularly. The facilities are integrated into the safety concept of the Leuna Chemical Site.

The following substances are handled in the plants. In the event of an incident, effects on the neighborhood cannot be ruled out:

Substances	characteristics
Gases (Ethene, Hydrogen)	flammable, explosive
Liquid gases (Propylene, Butane)	flammable, hazardous to waters
Liquids (Oils, Peroxide)	flammable, hazardous to waters
Solids (Polyethylene Pellets)	flammable

Contact person:

Dow Olefinverbund GmbH
Kristan Soto
Chairman of the Board of Management
Straße B 13
06258 Schkopau
E-Mail: fswinfo@dow.com
Phone: +49 3461 49-0
www.dowmitteldeutschland.de

Dow Olefinverbund GmbH I Plant Leuna
Andreas Morawe
Production Leader

GHC Gerling, Holz & CO. Handels GmbH
Am Haupttor
Gebäude 3651
06237 Leuna

For more than 100 years, GHC GERLING, HOLZ & CO. Handels GmbH has been supplying industries worldwide with specialty gases. They are used, for example, to produce medicines and car tires or to disinfect drinking water.

At the Leuna Chemical Site, hydrogen sulfide is purified, filled into transport containers and stored. We obtain the raw gas required for our operation directly from another company at the site by pipeline. The finished product is used, among other things, in the surface treatment of metals, the refinement of mineral oils, the synthesis of fragrances and flavorings and the manufacture of semiconductors.

The plant is subject to the scope of application of the 12th Ordinance on the Implementation of the Federal Immission Control Act (12th BImSchV) and have been notified as such to the Saxony-Anhalt State Administration Office in accordance with Section 7 (1) of the 12th BImSchV.

A safety report was prepared for the operating area in accordance with Section 9 (1) i. In conjunction with Annex II of the 12th BImSchV and an operational hazard defense plan was prepared for the operating area and submitted to the Saxony-Anhalt State Administration Office. Contractual agreements exist with the InfraLeuna GmbH fire brigade for the fulfilment of all fire protection and operational hazard prevention tasks.

Substances that could be released in the event of an incident are:

Substances	characteristics
Hydrogen sulfide	very toxic, flammable, water pollutant
Chlorine	toxic, water pollutant
Hydrogen chloride	toxic, water pollutant
Ammonia	toxic, flammable, water pollutant

If you have any questions, please write to us or give us a call:
Tel.: +49 40 85312-0.
E-Mail: hamburg@ghc.de
www.ghc.de

GHC Gerling, Holz & Co. Handels GmbH
Dr. Richard Pätow
Site Manager

Greiner GmbH
Am Haupttor
Gebäude 6353
06237 Leuna

Plant	short description of activities
Main plant	plant to produce 3.500 tons a year acrylate polymer
Operational units	BE01 Polymerization BE02 Mixing and assembling BE03 Warehouse for raw materials and end products BE04 Office building, social rooms BE05 Tank storages

The main plant is designed to produce polymers. In the next operational unit other auxiliary materials are added to the polymer. These materials are mixed to the product.

Beside the main operational units for polymerization and mixing, necessary buildings, a tank storage and a warehouse, are part of the main plant. The main plant is built according to the failure regulation, lowest classification.

Failure relevant materials (main materials) are:

Substances	characteristics
Toluol	material number annex I failure regulation, 1.2.5.(1, 2, 3) / P5(a, b, c) flammable fluids, WGK 2
Butyl acrylate	material number annex I failure regulation, 1.2.5.(1, 2, 3) / P5(a, b, c) flammable fluids, WGK 1
Organic peroxide	material number annex I failure regulation, 1.2.8 / P8 oxidizing fluids, category 1, 2 or 3 or oxidizing solids, category 1, 2 or 3, WGK 1

Telephone numbers +49 3461 43-7025 and +49 3461 43-7027 for further information about our company can be caught up.

Greiner GmbH
Dr. Wolfram Lüneburg
General Manager

InfraLeuna GmbH
Am Haupttor
Gebäude 4310
06237 Leuna

InfraLeuna GmbH provides infrastructure services for the companies located within the Leuna Chemical Site and therefore operates various equipment, facilities, and networks. Except for a storage and transshipment center for hazardous goods, containers for petroleum products, and substances classified as toxic, highly toxic, oxidizing, inflammable, flammable, highly flammable, and/or environmentally hazardous, these facilities and networks are not subject to the Major Accidents Ordinance.

The safe and compliant operation of the storage and transshipment center for hazardous materials is ensured through strict adherence to applicable safety and fire protection regulations, as well as regular inspections by qualified personnel. All stored goods are received, handled, and dispatched in sealed, approved, and transport-appropriate containers. Under normal operating conditions, no emissions occur.

An internal emergency and hazard prevention plan, along with a safety report, has been prepared for this operating unit and is regularly reviewed and updated. In the unlikely event that substances are released despite all preventive measures, technical systems are in place to contain the hazardous materials immediately and to alert the site's fire brigade without delay. A comprehensive safety analysis and preventive hazard concept have confirmed that any potential substance release would have no adverse effects on the public.

Based on regulatory approvals and corresponding agreements, InfraLeuna GmbH also provides a wide range of services to plant operators at the Leuna Chemical Site who are subject to the Major Accidents Ordinance – particularly in the areas of prevention, emergency response, and containment. The Environmental Protection/Safety/Quality Department supports these companies, for example, in preparing and coordinating their legally required internal emergency and hazard prevention plans, which must be submitted to the competent authorities for approval.

To enhance clarity, these legally binding individual plans are consolidated – together with the participating companies – into a non-binding, site-wide emergency and hazard prevention plan for the Leuna Chemical Site. The Environmental Protection/Safety/Quality Department also coordinates the publication of this brochure.

The Site Security and Professional Fire Brigade departments play a key role in preventive measures, especially fire prevention. They are equipped with all necessary personnel and technical resources to respond to and contain any incidents, as well as to prevent the spread of pollutants. InfraLeuna's Control Center provides essential information and coordinates communication with all involved parties, including the Integrated Control Center of the Saalekreis District Administration.

The operational readiness of the professional fire brigade – which also includes an emergency medical service – is always ensured at a high level. InfraLeuna GmbH's site-wide information and incident management system includes:

- a siren warning system with voice modules,
- a digital alarm and conference server (information system using selected telephone connections across the Leuna Chemical Site),
- a direct telephone connection to the Integrated Control Center of the Saalekreis District Administration, and
- computer-based modeling of pollutant dispersion in the atmosphere.

In the event of an incident, the professional fire brigade operated by InfraLeuna GmbH is also responsible for:

- closing roads and gates,
- isolating and securing hazardous areas, and
- directly informing affected areas using loudspeakers or megaphones.

In case of an incident, InfraLeuna GmbH will provide initial information to the authorities, the public, and the media.

For additional information, you can reach our information hotline at any time: +49 3461 43-96920.

InfraLeuna GmbH
Dr. Christof Günther
Managing Director

Innospec Leuna GmbH
Am Haupttor
Gebäude 6310
06237 Leuna

Innospec Leuna GmbH operates a plant to produce plastics and waxes through polymerization of ethylene, or ethylene and vinyl acetate and a plant for the oxidation of waxes at the Leuna Chemical Site. Our plastics are processed by the plastic processing industry into injection moulding parts, profiles, foams and foils with very good flexible characteristics and low temperature resistance. Our waxes have numerous applications like printing ink, gloss paint, cleaning agents, textile and paper industry products and are also used as an additive in diesel and heating fuel.

We mainly obtain our raw materials via pipeline (ethylene) or tank lorries (vinyl acetate). Polymerization is carried out under high pressure and temperatures.
The plant is subject to approval and to the stipulations of the Federal Immission Control Act (Bundesimmissionsschutzgesetz) and the Accident Regulations (Seveso III). The operation of the plant is carried out in accordance with the statuary regulations and has a high technical and organizational safety standard.

In case of accidents, we have undertaken measures that will limit the effect of an accident to the plant area (e.g. operational alarm and accident prevention plan, professional fire brigade).

Accident relevant substances are:
:

Substances	characteristics
Ethylene (gaseous)	flammable (forms explosion capable mixture with air)
Vinyl esters (liquid)	highly flammable
Finished products (solid)	flammable
Liquid mineral oil products	

Further information about our company can be obtained via phone +49 3461 478 43 00.

Innospec Leuna GmbH
Richard Marks
Dietrich von der Wense
Managing Director

Iqony RKB Raffinerie-Kraftwerks-Betriebs GmbH
Plant Leuna
Am Haupttor
Gebäude 3691
06237 Leuna

Iqony RKB Raffinerie-Kraftwerks-Betriebs GmbH, a wholly owned subsidiary of Iqony Solutions GmbH, has been operating the Leuna Refinery Power Plant since 1996. The facility supplies TotalEnergies Raffinerie Mitteldeutschland GmbH with electricity, process steam, compressed air, process water, as well as feed and cooling water. The power plant is equipped with one gas-fired boiler and three oil-fired boilers, with a total rated thermal input of 520 MW.

The main fuels used are distillation and conversion residues. Other materials include ammonia, aqueous ammonia, and heating oil EL.

Due to the quantities of ammonia and distillation/conversion residues handled on site, the Leuna Refinery Power Plant is classified as a lower-tier establishment under the provisions of the Major Accidents Ordinance (12th BImSchV). The facility has been duly notified to the competent authorities, and all operator obligations arising from the ordinance are fully met.

The refinery power plant plays an active role in air pollution control and is equipped with state-of-the-art flue gas cleaning systems, including electrostatic precipitators, flue gas desulfurization units, and nitrogen oxide (NOx) reduction systems. The NOx reduction process requires an ammonia supply system, which consists of a supply pipeline from DOMO Caproleuna GmbH, a railway unloading station, storage tanks for liquefied ammonia, connecting pipelines, and an evaporator unit. The ammonia is vaporized and injected into the flue gas stream, where nitrogen oxides are reduced to harmless nitro-gen and water on the DeNOx catalyst. The ammonia supply system is equipped with comprehensive, state-of-the-art safety features.

In principle, incidents could arise from the hazardous substances used at the power plant. While ammonia presents the highest potential risk, other substances could also theoretically contribute – though the probability of such occurrences is very low.

The table below lists the hazardous substances relevant under the Major Accidents Ordinance and their key hazardous properties:

Substances	characteristics	Usages
Ammonia (Liquefied under pressure)	inflammable gas, toxic by inhalation, very toxic to aquatic life	Nitrogen oxide reduction of the flue gases
Ammonia water (25 %)	very toxic to aquatic life	conditioning of the boiler feed water
Slurry	very toxic to aquatic life	fuel for the oil boilers
Vacuumvisbreaker-residue (VVR)	very toxic to aquatic life	fuel for the oil boilers
Light fuel oil (Heating oil EL)	Flammable liquid a vapor, toxic to aquatic life with long lasting effects	fuel for the start-up operation of the oil boiler
Fuel gas	extremely flammable gas, toxic by inhalation	fuel for the gas boiler
Synthesis gas	extremely flammable gas, toxic by inhalation	fuel for the gas boiler
Natural gas	extremely flammable gas, toxic by inhalation	fuel for the gas boiler

The refinery power plant is subject to constant operational safety control by well trained staff. Safety-relevant system com-ponents are additionally regularly checked by recognized experts.

If you have any questions, please contact us or call us at the phone number +49 3461 548-0.

Iqony RKB Raffinerie-Kraftwerks-Betriebs GmbH
Michael Schellhardt
Plant Manager & Managing Director

LCP Leuna Carboxylation Plant GmbH
Am Haupttor
Gebäude 7629
06237 Leuna

LCP GmbH operates a plant to produce carboxylation products at the Leuna Chemical Site, which falls within the scope of application of the 12th Federal Immission Control Ordinance (12th BImSchV). The responsible authority has the information required under section 7 (1) of the 12th BImSchV on the operating area.

In the carboxylation plant will be produced salicylic acid and cresotinic acids by chemical conversion of phenol, cresols and other substances para-hydroxybenzoic acid. Some of the ingredients and auxiliaries are substances that can be hazardous to health and the environment as well as physical hazards if handled improperly. The input and auxiliary materials required in connection with the operation of the plants as well as the intermediate and finished products are stored in the plant.

para-hydroxybenzoic acid is used as a starting point for specialty polymers and used to obtain antimicrobial PHBA esters and their salts. Salicylic acid and cresotinic acids are starting materials for pharmaceutical active ingredients and pharmaceutical preparations. The plant falls under the scope of application of the 12th BImSchV. The processes in the plant are partially under increased pressure and elevated temperature and are therefore operated under strict safety precautions.

An accident prevention concept has been prepared and reviewed by independent experts. The material, environmental and operational hazards relevant to the plant and the countermeasures taken in the accident prevention concept indicate that there is no serious risk posed by the equipment.

The plant fire brigade of InfraLeuna GmbH has contractual agreements for the execution of all tasks of preventive fire protection and operational defense against danger. If, despite all safety precautions, an accident occurs, the population will be warned by the siren system of InfraLeuna GmbH. For information on the behavior in the event of a fault, see the last page of the brochure.

Further information about the facility can be obtained by calling +49 3461 43-4351.

LCP Leuna Carboxylation Plant GmbH
Felix Hühnerschulte
Managing Director

LEUNA-Harze GmbH
Am Haupttor
Gebäude 6619
06237 Leuna

LEUNA-Harze GmbH operates production facilities for manufacturing resins through various chemical processes, including synthesis, saponification, polycondensation, and polymerization.

The plants produce both liquid and solid epoxy resins, epoxy resin hardeners, reactive diluents, and bisphenol F, as well as epichlorohydrin as a base material. The required raw materials – such as glycerin, bisphenol A, epichlorohydrin, caustic soda solution, phenol, and fatty alcohols – are delivered to the Leuna Chemical Site by rail tank cars or tank trucks. Finished products are shipped by road, either in tank trucks, drums, or small containers, under the brand name Epilox®.

The operating areas of LEUNA-Harze GmbH fall under the scope of the Major Accidents Ordinance. The production units generally operate under normal or vacuum pressure conditions and comply with strict safety regulations. The use of modern process control systems enables comprehensive safety monitoring and helps prevent incidents.

By implementing an integrated management system for quality assurance, environmental protection, and occupational safety (ISO 9001, ISO 14001, and the EU Eco-Management and Audit Scheme), the company and all employees are committed to maintaining high-quality standards, environmental responsibility, and safe operations.

LEUNA-Harze GmbH cooperates closely with the site's professional fire brigade, which is prepared to respond immediately in the event of an accident or fire to minimize potential consequences.

Substances that could be accidentally released into the surrounding area include:

Substances	characteristics
Fumes (smoke)	health hazard, caustic
Gases/vapors of organic liquids, hydrochloric acid (gaseous), chlorine	toxic, health hazard, odorous, flammable, explosion capable
Liquids (aromatic solvents, epichlorohydrin, phenol, amines, resins)	toxic, health hazard, flammable, explosion capable, caustic, hazardous to water and environment

Further information about our company can be obtained by calling +49 3461 43-3094 or +49 3461 43-4180, or by visiting our website at www.leuna-harze.de.

LEUNA-Harze GmbH
Klaus Paur
Managing Director

LEUNA - Polyamid GmbH
Am Haupttor
Gebäude 4310
06237 Leuna

At the Leuna Chemical Site, LEUNA - Polyamid GmbH operates an integrated production of Benzene, Cumene, Phenol and Cyclohexanone, from Sulphuric acid and Hydroxylammonium sulphate (HAS), Caprolactam and Polyamide granulate (target product). The manufacturing products also include Acetone, Ammonium sulphate and other intermediate and co-products, which are either further processed or sold.

Plant	brief description of the activities
Ammonia	unloading, pressure storage and distribution of liquid Ammonia
Ammonia solution	production of Ammonia solution from liquid Ammonia
Ammoniumsulphat	production of fertilizer through crystallization of Ammonium sulphate solution
Benzene	extraction of benzene from a hydrocarbon mixture
Cumene	production of Cumene through liquid phase alkylation of Benzene with Propene at 23 bar
Phenol	production of Phenol and Acetone using the HOCK-process by Cumene oxidation
Sulphuric acid	production of Sulphuric acid and Oleum using the double contact process
Hydroxylammonium sulphate	production of Hydroxylammonium sulphate through pressure hydrogenation of Nitrogen monoxide
Cyclohexanone	production of Cyclohexanone through Phenol hydrogenation
Caprolactam	production of Caprolactam by oximation of Cyclohexanone with HAS and following rearrangement, in presence of Oleum, to Caprolactam

Both operating areas of LEUNA - Polyamid GmbH are subject to the 12th BImSchV (Hazardous Incident Ordinance). Both areas belong to the upper class and have been notified to the competent authority in accordance with § 7 of the above ordinance.
Safety reports in accordance with § 9 Para. 1, 12th BImSchV are available for both. A concept for the prevention of hazardous incidents has been developed and implemented.

Substances relevant to emergency situations (main components) are:

Substances	characteristics
Acetone	flammable liquid, anesthetic effect
Ammonia, pure, anhydrous	corrosive, flammable gas, liquefied under pressure, toxic by inhalation
Ammonia solution < 35 %,	irritating to skin and respiratory tract, acutely hazardous to the aquatic environment
Benzene	flammable liquid, irritant, carcinogenic, mutagenic, toxic if swallowed
Cumene	flammable liquid, respiratory irritant, target organ toxicant, carcinogenic, chronically hazardous to the aquatic environment
Cyclohexanone	flammable liquid, harmful to health, skin irritant
Hydroxylammonium sulphate solution	harmful, irritating to skin and eyes, acutely hazardous to the aquatic environment
Sulphuric acid / oleum	corrosive, respiratory irritant, reacts violently with water
Phenol	acutely toxic, corrosive, hazardous to the aquatic environment
Propene, propane	extremely flammable gas, liquefied under pressure, explosive
Sulphur trioxide	corrosive, respiratory irritant
Trichlorethylene	Carcinogenic
Hydrogen	extremely flammable gas, pressurized gas

Our fundamental principle is the prevention of incidents. That is why we have implemented every conceivable safety measure to achieve this goal. These measures are documented in writing and made known to the relevant authorities. In addition, we have developed an internal alarm and emergency response plan, which has been coordinated with the safety and environmental protection officers at the Leuna Chemical Site as well as with the responsible authorities. All safety measures are regularly reviewed and evaluated as part of our integrated management system.

Contact person

Managing Director:	Martin Naundorf	phone: +49 3461 43-2232
Manager HSQE:	Dr. Matthias Schmidt	phone: +49 3461 43-2242

LEUNA - Polyamid GmbH
Martin Naundorf
Managing Director

Linde Gas, a business unit of Linde GmbH, together with its subsidiaries Linde Gas Produktionsgesellschaft mbH & Co. KG and Hydromotive GmbH & Co. KG, specializes in the production and sale of industrial gases.

At the Leuna Chemical Site, the company operates plants for:

- separating air into its components – oxygen, nitrogen, and inert gases,
- producing hydrogen, carbon dioxide, and carbon monoxide,
- liquefying hydrogen and carbon monoxide,
- storing acetylene,
- filling and storing air and specialty gases in mobile pressure containers, and
- storing trichlorosilane and other highly toxic substances.

Customers – including companies in the chemical and food industries, craft businesses, hospitals, and manufacturers of computer components – are supplied via on-site transport vehicles and pipelines.

Certified engineering firms have developed safety concepts for Linde's operating units, enabling us to demonstrate to the authorities and to our neighbors that our operations are always conducted safely. Compliance with all applicable laws and regulations governing the installation and operation of our plants is a given. In addition, we have voluntarily implemented a certified Quality, Safety, Health, and Environmental Management System (SHEQ).

Below is an overview of substances regulated under the Major Accidents Ordinance and handled by Linde GmbH, including their properties and recommended behavior in case of an incident:

Substances	characteristics	behaviour in case of danger
Oxygen	chilled liquefied, oxidising, heavy fog formation with humidity	keep away from the fog patches, no fire, no smoking
Acetylene, Hydrogen	inflammable gases, mixtures with air are explosive	no smoking, no fire, no sparking
Toxic gases	toxic, partially caustic, partially odourless	comply with the instructions given by the emergency services, stay in closed rooms
Trichlorosilane	extremely flammable liquid, strong odor, self-ignites in contact with air, reacts violently with water, emits toxic gases in contact with water	do not smoke, no fire, no sparks, follow instructions of emergency services, stay in closed buildings

For more information, please contact our SHEQ department (Phone: +49 89 7446-0) or management (Phone: +49 3461 853-120).

For more information about our products and locations, please visit our website at www.linde-gas.de or contact us by email at info@linde-gas.de.

Linde GmbH
Stefano Innocenzi
Oliver Pfann
Matthias von Plotho
Managing Director

Linde Gas Produktionsgesellschaft
mbH & Co. KG
Dr. Mathias Kranz
Botond Tordai
Managing Direktor

Hydromotive GmbH & Co. KG
Helge Schröter
Kai Broetzmann
Managing Director

MinAscent Leuna Production GmbH
Am Haupttor
Gebäude 4208
06237 Leuna

MinAscent Leuna Production GmbH operates a multi-purpose plant to produce fine and specialty chemicals and associated storage facilities in the northern part of the Leuna Chemical Site. The products manufactured are used in the chemical and pharmaceutical industries.

The operation performed falls within the scope of the Accident Regulation with upper class.

The operation of the facilities is done under a tight safety system. Modern distributed control systems ensure a safe monitoring and operation of the production processes. The stock quantities of starting materials are kept to a necessary minimum, to limit the impact on the surrounding neighborhood in case of an accident.

MinAscent is working in the direct responsibility and in the self-understanding to continuously improve the protection of health, the environment and the safety of the employees and neighbors.
The MinAscent facilities are integrated in the security and emergency response system of the Leuna Chemical Site. In case of a severe accident, materials with the following hazardous potential may be released besides fire and explosions and de-spite all the safety measures in place:

Substances	characteristics
Acetone	highly flammable liquid and vapor; causes serious eye irritation; may cause drowsiness or dizziness
Ammonia	flammable gas, toxic if inhaled, causes serious irritation of the skin and serious eye damage, very toxic to aquatic life with long lasting effects
Di-tert-butyl-dicarbonate	flammable liquid and vapor, flammable solid, danger to life if inhaled, causes skin irritation, causes serious eye damage, may cause an allergic skin reaction, may cause respiratory irritation
Dichloromethane	causes skin irritation, causes serious eye irritation, may cause drowsiness and dizziness, suspected of causing cancer
Dimethyl sulphate	toxic if swallowed, danger to life if inhaled, causes serious irritation of the skin and serious eye damage, may cause an allergic skin reaction, may cause respiratory irritation, suspected of causing genetic defects, can cause cancer
Ethyl acetate and isopropanol	highly flammable liquid and vapor, causes serious eye irritation, may cause drowsiness and dizziness
Heptane und Toluene	highly flammable liquid and vapor, may be fatal if swallowed and enters airways, causes skin irritation, may cause drowsiness and dizziness, very toxic to aquatic life with long lasting effects
Dimethyl sulfate and methyl, methane sulfonate	highly flammable liquid and vapor, catches fire spontaneously in contact with air, contact with water releases flammable gases which may ignite spontaneously. Harmful if swallowed, causes serious irritation of the skin and serious eye damage, may cause drowsiness and dizziness
Caustic soda and sulfuric acid	may be corrosive to metals, causes serious irritation of the skin and serious eye damage
Nitric acid	may intensify fire, oxidizing agent, may be corrosive to metals, danger to life if inhaled, causes serious irritation of the skin and serious eye damage
Selenium	toxic if swallowed, toxic if inhaled, may cause damage to organs through prolonged or repeated exposure, may cause long lasting harmful effects to aquatic life
Thionyl chloride	harmful if swallowed, toxic if inhaled, causes serious irritation of the skin and serious eye damage, may cause respiratory irritation
Hydrogen	extremely flammable gas, contains gas under pressure, may explode if heated
Hydrogen peroxide	may intensify fire, oxidizing agent, harmful if swallowed or if inhaled, causes skin irritation, causes serious eye damage, may cause respiratory irritation

For further information please contact:

Head of Production	Phone: +49 3461 43-4406
Site Manager	Phone: +49 3461 43-4535

MinAscent Leuna Production GmbH
Dr. Olaf Poppe
Managing Director

Quadrimex Sulfur Chemicals GmbH & Co. KG
Am Haupttor
Gebäude 3651
06237 Leuna

Quadrimex Sulfur Chemicals GmbH & Co. KG operates a plant to produce sodium hydrosulphide (NaHS plant) at the Leuna Chemical Site, which falls within the scope of application of the 12th Federal Immission Control Ordinance (12th BImSchV) and forms an 'upper-tier establishment'. The responsible authority has the information required under section 7 (1) of the 12th BImSchV on the establishment.

In the NaHS plant, sodium hydrosulphide, sodium sulphide or ammonium sulphide are produced by chemical transformation from hydrogen sulphide and caustic soda or ammonia water. The ingredients and the products are substances which, if handled improperly, can be hazardous to health and the environment as well as possibly evoking physical hazards. The input materials required in connection with the operation of the plants and the intermediate and finished products are stored in the plant.

The products manufactured in the plant are mainly used as flotation agents in ore processing, as auxiliaries in the leather, paper and pulp industries, in waste gas and wastewater treatment, and as feedstock in the chemical industry. In some cases, processes in the plant run at a slight overpressure and at slightly elevated temperatures. The system is operated under strict safety precautions.

An accident prevention concept and a safety report have been prepared by us and reviewed by the responsible authorities and independent experts. The plant relevant operational, material and environmental hazards presented in the safety report as well as the countermeasures taken indicate that the plant poses no serious danger.

There are contractual agreements with the fire brigade of InfraLeuna GmbH to perform all tasks of preventive fire protection and operational security. If, despite all safety precautions, an accident occurs, we immediately inform the relevant authorities who will warn the population. Information about actions to be taken in the event of an accident can be found on the last page of the brochure.

Information about the last on-site inspection acc. to § 16 Abs. 3 StörfallV can be found in the table at the end of this booklet, results as well as the monitoring plan of the responsible authority on the website of the Landesverwaltungsamt Sachsen-Anhalt: (https://lvwa.sachsen-anhalt.de/aktuelles/ueberwachung-von-industrieemissions-anlagen-ie-anlagen/). Further information may be requested by phone under +49 (0)345 / 514-0 or obtained by calling Quadrimex under +49 3461 43-9801.

If, despite all safety precautions, an accident occurs, the release of toxic and environmentally hazardous substances cannot be ruled out. In such a case, those substances may be released into factory premises and thus also in the immediate vicinty, depending on the current meteorological conditions. As the plants within the operating area are operated by suitably qualified and trained employees, the facilities are regularly checked, maintained and repaired as necessary and the fire brigade of InfraLeuna GmbH can effectively and quickly take measures against effects of an accident. It will be possible to minimize such effects usually limited to the company or to the territory of the Leuna Chemical Site. The regular further development, maintenance and testing of our technical and safety systems are just as much part of our comprehensive concept for the targeted and preventive avoidance of accidents as the continuous training of our employees. This also includes regular emergency drills in cooperation with the fire department of InfraLeuna GmbH.

The hazard control authority responsible has developed an external alarm and hazard prevention plan that includes the necessary precautions to protect people and the environment in the event of an accident with effects outside the Leuna Chemical Site. If, in the event of an accident, impacts still occur outside the plant or the Leuna Chemical Site, we recommend that you follow the instructions for emergency and rescue services for your own protection.

Quadrimex Sulfur Chemicals GmbH & Co. KG
Martin Ziegler
Managing Director

Shell Catalysts & Technologies Leuna GmbH
Am Haupttor
Gebäude 8322
06237 Leuna

Shell Catalysts & Technologies

Shell Catalysts & Technologies Leuna GmbH manufactures inorganic products at the Leuna Chemical Site which are mainly used as catalysts in chemical processes. These catalysts mainly consist of chemically nearly inactive materials (e.g. alumina, silicates) and certain base metal or precious metal parts. They are used very versatilely e.g. for the refining of petro-chemical and oleo-chemical intermediates as well as in the sector of environmental protection.

The production facilities used for the manufacturing of catalysts are in the south-eastern part of the Leuna Chemical Site. All raw and auxiliary materials as well as the intermediates and finished products are stored there. In the sense of the Federal Immission Control Act (Bundes-Immissionsschutzgesetz/BImSchG) these facilities are an operating area for which, basically because of the handling of respirable Nickel dusts, apply extended safety obligations according to the regulation on hazardous incidents which are completely fulfilled by our company. This has been confirmed by independent experts because of con-ducted safety analysis. The last inspection according to Störfallverordnung took place on 04.10.2023.

A safety report, a concept for the prevention of hazardous incidents and an internal alarm and danger fighting plan have been submitted to the charged authority which has accepted them. Furthermore, a reliable safety organisation within our company in cooperation with the articled works fire brigade, with other on-site facilities acting to prevent danger and with the state surveillance authority guarantees that the facilities within the operating area of Shell Catalysts & Technologies Leuna GmbH are only operated under strict compliance with the safety regulations.

In case that despite all preventative safety measurements substances which are subject to the regulation on hazardous incidents are uncontrollably released, it is ensured that we immediately and comprehensively fulfil our information duty as well as our obligation to fight the hazardous incident and so limit or eliminate any damaging effects on the neighbourhood.

Substances that may be accidentally released into the neighbouring vicinity are:

Substances	characteristics
Hydrogen, Natural gas	flammable gas (P2, 2.)
Ammonia water <25%	hazardous to water (E2)
Ammonia (anhydrous)	severe toxic (H2), flammable gas (P2), hazardous to water (E1)
Base metal compounds (Nickel, Cobalt as salt solutions, suspensions or solids)	severe toxic (H1, H2) and/or carcinogenic (2.31), hazardous to water (E1, E2)
Hydrazine solution	severe toxic (H2), hazardous to water (E1)

For further information about our company call +49 3461 43-4384 or +49 3461 43-3447.

Shell Catalysts & Technologies Leuna GmbH
Dr. Marianne Kox
Marc Schwindt
Dr. Sandra Sienerth
Managing Director

Taminco Germany GmbH
Am Haupttor
Gebäude 8314
06237 Leuna

Our company operates on the southern part of the Leuna chemical park, a facility consisting of many different companies and manufacturing facilities, to produce methylamines, dimethylformamide, chlorocholine chloride and derivates of methylamine. The facility is subjected to the Major Accidents Ordinance.

Methylamines are catalytically synthesized from methanol and ammonia at increased pressure and temperature and purified in several distillation columns. Methylamines are raw materials used for solvents, vulcanization accelerators, crop protection products, ion exchangers, disinfectants, nutraceuticals, cereal growth stabilizers, dyes and pharmaceuticals.

Dimethylformamide is synthesized in another plant from carbon monoxide and dimethylamine in the presence of a methanolic solution of sodium methylate at high pressure and increased temperature and purified in a distillation unit. Dimethylformamide is a versatile solvent used in many applications, for example in the production of acrylic fibres and polyurethanes.

In the derivatives plant, dimethylammonium chloride solution is produced from dimethylamine, hydrogen chloride and water and trimethylammonium chloride solution is produced from of trimethylamine, hydrogen chloride and water.

Chlorocholine chloride is produced by mixing TMA and DCE at increased temperature and pressure. Chlorocholine chloride is used in agriculture as a growth regulator for strengthening the stalks of cereals and is produced from the raw materials trimethylamine and dichloroethane.

Most raw materials are acquired from other companies on site via pipelines: methanol, ammonia, carbon monoxide, hydrogen chloride.

The following hazardous substances are handled in accordance with appendix 1 of the Major Accidents Ordinance:

Substances	Characteristics
Gases/Vapors:	
Ammonia	causes burns, flammable gas, liquefied under pressure, toxic by inhalation
Fumes in an accident	harmful with toxic substances
Natural Gas	extremely flammable gas
Hydrogen chloride	causes burns, toxic by inhalation
Carbon monoxide	extremely flammable gas, toxic by inhalation
Methylamine	causes burns, extremely flammable gas, liquefied under pressure, toxic, harmful by inhalation
Hydrogen	extremely flammable gas
Liquids:	
Distillation residue	highly flammable liquid, toxic if swallowed, in contact with skin or inhaled, hazardous to aquatic organisms
1,2-Dichloroethane	flammable liquid, toxic by inhalation, harmful if swallowed, may cause cancer
Dimethylformamide	flammable liquid, harmful in contact with skin or in inhaled
Methylamine solutions	causes burns, highly flammable liquid, hazardous to aquatic organisms
Methanol	highly flammable liquid, toxic if swallowed, in contact with skin or inhaled, harmful to organs
Methanolic methylate solution	causes burns, flammable liquid, toxic if swallowed, in contact with skin or inhaled, harmful to organs

The following equipment is available to limit the impact of incidents:
A blowdown system with a flare allows systems to be quickly depressurized and emptied in the event of leaks.
Vent gases produced in the chlorocholine chloride plant are fed into an incinerator.
Stationary and remotely activated sprinkler systems for cooling tanks and dispersing water-soluble gases (ammonia, methylamines).
Fire extinguishing and water retention facilities.

For further information please call phone: +49 3461 43-4502.

Taminco Germany GmbH
Martin Leipnitz
Site Manager

TOPAS Advanced Polymers GmbH
Am Haupttor
Gebäude 6772
06237 Leuna

TOPAS Advanced Polymers GmbH manufactures polymers and norbornene (the monomer used) at its chemical plant in Leuna. These polymers are characterized, among other things, by glass-like clarity, a high moisture barrier, stiffness and strength, as well as excellent biocompatibility and strong electrical insulation properties. The unique properties of TOPAS COC have led to a growing number of applications in healthcare, packaging, diagnostics, and electronics. Norbornene (a cyclic olefin) is used as a feedstock in agricultural pesticides, specialty fragrances, and high-damping rubber, as well as in the production of TOPAS COC.

The production facilities used to manufacture polymers and norbornes are located in Plant Section I of the Leuna chemical site. All raw materials, auxiliary materials, intermediates, and finished products are also stored here. These facilities constitute an operational area as defined by the Federal Immission Control Act (BImSchG), for which enhanced safety obligations (upper class) under the Major Accidents Ordinance apply - obligations that our company fully complies with. This was confirmed by an independent review of the safety analysis conducted by independent experts.

A safety report, a plan for preventing incidents, and an operational alarm and emergency response plan were submitted to the relevant authorities and accepted by them. Furthermore, a reliable safety organization within our company, working in coordination with the contractually bound plant fire department, other emergency response units operating at the chemical site, and the state regulatory authorities, ensures that the facilities within the operational area of TOPAS Advanced Polymers GmbH are operated in compliance with strict safety precautions.

In the event that, despite all preventive safety measures, hazardous substances are released in an uncontrolled manner, we ensure that we fulfill our obligations regarding information disclosure and emergency response immediately and in full, thereby preventing or limiting harmful effects on the surrounding area.

Hazardous substances that could be released into the surrounding area in the event of an incident at facilities within the operational area are primarily:

Stoffe	Eigenschaften, Gefährlichkeitsmerkmale
Hydrogen, natural gas, ethylene	flammable gases (P2)
Dicyclopentadiene Solvent	flammable liquids (P5a), acutely toxic (H2), hazardous to aquatic environments (E2)
Norbornen Catalysts	hazardous to aquatic environments (E2)
Low-boiling substance	flammable liquids (P5a), acutely toxic (H2), hazardous to aquatic environments (E1)
Co-catalyst	flammable liquids (P5c), substances that can be ignited by water (O2)
Slow-cooker	flammable liquids (P5c)
DOWTHERM RP (Heat Transfer Oil)	hazardous to aquatic environments (E2)

For more information about our company, please call +49 (0)3461 43-6901.

TOPAS Advanced Polymers GmbH
Frank Kauertz
Gregor Bommel
Management

TotalEnergies Raffinerie Mitteldeutschland incorporates the refinery's new process area, the POX/methanol plant as well as the tank farm and loading facilities. The plants are state of the art and are operated by qualified staff. The crude oil as the deter-mining resource is received via pipelines.

The refinery produces liquefied petroleum gases, gasoline, kerosene, diesel fuels, raw products for the chemical industry (BHC [benzene heart cut], methanol, petrochemical naphtha, propylene, sulphur) and bitumen. Additives and auxiliary mate-rials required for operation as well as the intermediate and finished products are stored onsite. Finished products are dis-patched via loading facilities for rail and truck loading as well as via product pipelines.

Most of the production facilities operate under elevated pressure and temperature; they are mainly subject to the German Hazardous Incident Ordinance. The resulting technical and organizational measures have been implemented. The necessary safety reports have been produced and assessed by independent experts. The corresponding inspections were carried out in approval procedures involving various technical authorities and the operation of these plants was officially approved. The production and storage facilities are subject to regular technical monitoring by experts (last onsite inspection on September 18, 2023).

The refinery has its own fire brigade which can intervene directly in the event of product releases and fires and limits the con-sequences of these incidents. The fumes mentioned below may occur in case of incineration of the handled materials. Explosion effects on the environment of the refinery can be reasonably excluded.

Substances that may cause an incident and could be released into the neighbourhood are:

Substances	characteristics
Hydrogen Sulfide	very toxic, highly flammable, dangerous to the environment, irritates the respiratory tract, acutely hazardous to aquatic organisms
Sulphur dioxide	toxic by inhalation, causes burns
Carbon monoxide	extremely flammable gas, toxic by inhalation
Ammonia	flammable gas, toxic by inhalation, causes burns, acutely hazardous to aquatic organisms
Hydrogen	flammable gas
Gaseous hydrocarbons	flammable gases
Liquids hydrocarbons	extremely flammable, acutely toxic if swallowed and transferred to the respiratory tract, may cause genetic defects or cancer, acutely hazardous to waters
Methanol	highly flammable, toxic if swallowed, in contact with skin or inhaled, harmful to organs
Fumes (smoke)	toxic by inhalation

For information about the plant, products and questions concerning the company, please contact us at via internet https://totalenergies.de, via email kommunikation-trm@totalenergies.com or via telephone +49 3461 48-0. The citizen’s phone is permanently available via +49 800 4848112.

TotalEnergies Raffinerie Mitteldeutschland GmbH
Thomas Behrends
Managing Director

UPM Biochemicals GmbH
Am Haupttor
Gebäude 4314
06237 Leuna

UPM Biochemicals GmbH is a subsidiary of the Finnish UPM Group, a leading company in the forest, pulp, and paper industry. With the investment in a biorefinery at the Leuna Chemical Site, UPM has taken the next step in its corporate transformation to enter the biochemicals business. The biorefinery will produce various wood-based biochemicals that provide a sustainable alternative to fossil raw materials in numerous application areas.

Our high-quality glycols
- biobased monoethylene glycol (BioMEG) and
- biobased monopropylene glycol (BioMPG)

can be processed into various industrial goods and products for everyday use, such as packaging, textiles, coolants and cosmetics.

Our third product, UPM BioMotionTM Renewable Functional Fillers (RFF), is used in various rubber applications as a sustainable alternative to industrial carbon black and silica. It does not only offer climate benefits but is also characterized by lightweight and high purity.

The biorefinery is divided into the main area and the wood yard. Both areas are connected by a conveyor belt.

Woodyard with wood handling
Hardwood, preferably beech wood, is delivered to the wood yard and stored. For further processing, the wood is debarked and then chipped. The resulting wood chips are transported to the main refinery site via the conveyor belt.

Refinery
By enzymatic hydrolysis, cellulose is converted into sugar and lignin is separated. The sugar is purified and then processed into the final products by catalysis and distillation. The lignin is refined into renewable functional fillers in further process steps.

Substances that could cause an incident and affect the surrounding area include:

Substances	characteristics
Formaldehyde	severe toxic (Cat. 3), causes severe skin burns and eye damage, may cause allergic skin reaction, may cause genetic defects and cancer
Methanol	highly flammable, toxic if swallowed, in contact with skin or inhaled, harmful to organs
Fumes (smoke)	toxic in case of inhalation

Our plants are equipped with modern safety facilities. We have contractual agreements with the InfraLeuna GmbH professional fire brigade to provide preventive fire protection and operational hazard prevention. In addition, we implement a certified energy, quality, safety and environmental management system.

If you have any questions, please write or call us:

Contact
Executive Vice President: Harald Dialer harald.dialer@upm.com, phone +49 3461 / 519 5005
Manager Process Safety: Robert Sachse robert.sachse@upm.com, phone +49 151 / 51758453

https://www.upmbiochemicals.com

UPM Biochemicals GmbH
Harald Dialer
Executive Vice President

Vantage Leuna GmbH
Am Haupttor
Gebäude 7302
06237 Leuna

Vantage Leuna GmbH is specialized in the production of anionic and nonionic tensides and specialty chemicals.

At the Leuna Chemical Site Vantage Leuna GmbH operates plants to produce substances achieved through a chemical conversion process for basic substances and production of washing agents.

- fatty acid-N-methyltaurinate to produce detergents and textile appliances and pesticides,
- Sodium-isethionate to produce body care products and detergents,
- Chloroparaffins as flame retardant,
- nonionic tensides as cleaning agents,
- fatty alcohols for detergents and cleanser, creams, body lotions, leather and textile auxiliaries, as surfactant.

The plants are subject to the application of the Accident Regulation. Due to the substances used, the plants are operated under very strict safety measures. In accordance to the Accident Regulations, Vantage Leuna GmbH prepared a safety report about the operational area, which has been approved by independent experts and submitted to the relevant authorities.
The Leuna Chemical Site has a professional fire brigade, which will take immediate action in case of substance release or fire and will, in cooperation with company staff, emergency and rescue services, take the appropriate measures to fight any incident and do its utmost to limit the effect of the incident.
To fight the effects of an incident outside of the working area, an external alarm and hazard prevention plan has been designed. The directions of the emergency and rescue services must be adhered to.

Substances that could cause an incident and affect the surrounding area include:

Substances	characteristics
Chlorine	fatal if inhaled
Sulphur dioxide	toxic if inhaled
Ethylene oxide	toxic, extremely flammable
Propylene oxide	extremely flammable
Methanol	toxic, highly flammable liquid and vapor
Phosphorus trichloride	Fatal if swallowed or if inhaled
Other substances, e.g. Acids, Lyes, Methylamine solution	caustic, hazardous to water

For further information about our company please contact us via phone +49 3461 43-7768.

Vantage Leuna GmbH
Torsten Bäumel
Charly Eid Nader
Managing Director

Date of the Last On-Site Inspections under the Major Accidents Ordinance

Facilities subject to the Major Accidents Ordinance are monitored by the competent authority as part of a structured inspection program. This program includes regular on-site inspections, summarized in the overview below.

More detailed information regarding inspection dates and the monitoring plan can be obtained from the State Administration Office (Landesverwaltungsamt) upon request, in accordance with the Environmental Information Act.

Operating company of facilities according to the Major Accidents Ordinance at the Leuna Chemical Site	**Date of the last on-site inspections**
ALBERDINGK BOLEY GmbH, Plant Leuna	22.10.2025
ARKEMA GmbH	11.05.2022
Dow Olefinverbund GmbH	27.11.2023
GHC Gerling, Holz & Co. Handels GmbH	31.08.2023
Greiner GmbH	15.04.2026
InfraLeuna GmbH	12.06.2023
Innospec Leuna GmbH	18.08.2021
Iqony RKB Raffinerie-Kraftwerks-Betriebs GmbH	12.12.2022
LCP Leuna Carboxylation Plant GmbH	14.07.2025
LEUNA-Harze GmbH	31.07.2025
LEUNA - Polyamid GmbH • Operating Area I (Plant Section 1) • Operating Area II (Plant Section 2)	 05.08.2025 05.08.2025
Linde GmbH Division Linde Gas Linde Gas Produktionsgesellschaft mbH & Co. KG Hydromotive GmbH & Co. KG	21.08.2019 10.10.2018 20.10.2020
MinAscent Leuna Production GmbH	08.10.2026
Quadrimex Sulfur Chemicals GmbH & Co. KG	13.06.2023
Shell Catalysts & Technologies Leuna GmbH	04.10.2023
Taminco Germany GmbH (Eastman)	04.08.2026
TOPAS Advanced Polymers GmbH	-
TotalEnergies Raffinerie Mitteldeutschland GmbH	18.09.2023
UPM Biochemicals GmbH	-
Vantage Leuna GmbH	05.08.2025

italics = to the date of publication of this brochure known next inspection date

In addition to the on-site inspections carried out under the Major Accidents Ordinance, inspectors from the competent authorities also conduct regular inspections in other areas of law, such as air pollution control, water protection, occupational safety, and waste management.

Companies



1. ALBERDINGK BOLEY GmbH, Werk Leuna
2. ARKEMA GmbH
3. Dow Olefinverbund GmbH
4. GHC Gerling, Holz & Co. Handels GmbH
5. Greiner GmbH
6. InfraLeuna GmbH
7. Innospec Leuna GmbH
8. Iqony RKB Raffinerie-Kraftwerks-Betriebs GmbH
9. LCP Leuna Carboxylation Plant GmbH
10. LEUNA-Harze GmbH
11. LEUNA - Polyamid GmbH
12. Linde GmbH Geschäftsbereich Linde Gas
    Linde Gas Produktionsgesellschaft mbH & Co. KG
    Hydromotive GmbH & Co. KG
13. MinAscent Leuna Production GmbH
14. Quadrimex Sulfur Chemicals GmbH & Co. KG
15. Shell Catalysts & Technologies Leuna GmbH
16. Taminco Germany GmbH (Eastman)
17. TOPAS Advanced Polymers GmbH
18. TotalEnergies Raffinerie Mitteldeutschland GmbH
19. UPM Biochemicals GmbH
20. Vantage Leuna GmbH

- Infrastructure
- Operations areas of InfraLeuna
- Chemicals/Gases /Industry
- Service Providers
- Refinery
- Power plants
- Areas for industrial development
- Recultivated former mine dump
- Research Institutions

IMPRINT

Information of the public in accordance with § 11 of the Accident Regulations (12. BImSchV)
Edition November 2026

Editor:
InfraLeuna GmbH

ALBERDINGK BOLEY GmbH, Plant Leuna
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Dow Olefinverbund GmbH
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