



# In the limelight for our site-neighbors: Environmental Protection, Safety and Emergency Management

in accordance with the Environmental Information Act (UIG) § 14 – Information about the dangers of serious accidents

[www.infineon.com/austria](http://www.infineon.com/austria)





## Infineon as a daily companion

We all use microelectronics made by Infineon every single day. They make our lives simpler, safer and greener. They are usually invisible to the end user and are used in cars, smartphones, electronic identity passes, the electronics industry, payment and credit cards and energy supply. Infineon Technologies Austria AG develops and produces microelectronics which are predominantly used in the fields of mobility, security and energy efficiency. With a research quota accounting for 25% of its overall turnover, Infineon Technologies Austria is Austria's most research-intensive company. Some 3,500 employees from around 60 nations are employed at the sites in Villach, Klagenfurt, Linz, Graz and Vienna. Over 2,800 employees work at the Villach site alone.

## Focusing on the environment

At Infineon, a responsible company policy on environmental protection, energy management, occupational safety and health means more than just compliance with legal standards and regulatory requirements. It means a continuous improvement process for our products and for the operation of our plants and facilities. We are aware of our particular responsibility towards people and the environment. For us, this responsibility is based on a fruitful symbiosis of economic success and sustainable management.

In 2005 Infineon consolidated its occupational safety, health and environmental protection activities to form IMPRES (‘Infineon Integrated Management Program for Environment, Safety and Health’), covering all processes, strategies and corresponding goals in the areas of occupational safety, health and environmental protection worldwide along with the integration of the energy management system. This includes processes, strategies and objectives for the protection of people and the environment at our company. We adopt a comprehensive and preventative approach across the entire life cycle of a product. Our commitment has also been recognized by external independent inspection bodies. In May, the Infineon Group was ranked by the Dow Jones Sustainability Index as one of the world’s most sustainable companies for the sixth time in a row.

### Voluntary commitment

#### since 1997

- › EMAS (Eco Management and Audit Scheme of the European Union)
- › Environmental Management Standard ISO 14001
- › EMAS Prize: 2013 and 2009 › The first Austrian company to be certified under the EMAS III Regulation

### IMPRES definition

Matrix certification according to standard:

- › ISO 14001 (Environmental Management)
- › OHSAS 18001 (Safety Management)
- › ISO 50001 (Energy Management)

We have introduced numerous new focal points to support people and nature at the Villach site, based on IMPRES. After all, it is important for us to live alongside you, our neighbors, safely and with an awareness of our environment.

## What we do

At our production site in Villach, we produce semi-conductors for use in automobile and industrial electronics as well as computing and consumer end devices. Villach therefore forms an integral and important part of the front-end production network with additional sites in Germany and Malaysia. This means: a future is being created in Villach – for Infineon and for people.

### **Precision work for global market success**

Electronic components are produced on silicon wafers in Villach. These components are manufactured and tested in various technologies and complexities in up to 1,000 production steps on four different wafer diameters. The highest levels of precision are required: an accuracy of significantly below 100 nanometres, i.e. approx. 700 times thinner than the diameter of a human hair, makes the high level of technological expertise available at the Villach site particularly important. In total, some 1,900 product types are simultaneously produced in Austria. Synergies in research, development and production at the site drive forward innovation – and this boosts the global market success of Infineon chips in Austria.

### **Knowledge-based production**

Villach is the innovation centre for power electronics at Infineon. To reinforce this role and ensure the ability to compete in the international market environment, ongoing investments are made in the required infrastructure.

This applies in particular to the Industry 4.0 pilot area, a new concept in networked and knowledge-intensive production. This modern environment makes Infineon Technologies Austria a pioneer of intelligent production.

## Legal requirements

Some of the chemicals and gases used in the chip production are hazardous, i.e. poisonous, highly flammable or else have other hazardous properties. They present a potential risk in the quantities required by Infineon. For this reason, the Infineon site in Villach, Siemensstrasse 2, is subject to extensive safety and documentation obligations in accordance with the Trade, Industrial Accident and Incident Information Act.

Infineon Villach is subject to the terms and conditions of section 8a of the Industrial Code (GewO); the relevant trade authorities have been informed in accordance with § 84 c section 2 of the GewO. The safety report was presented to the authorities.

The site covers an area of approx. 19,000 m<sup>2</sup> and the front section looking out onto the Siemensstrasse is divided into office, social and development buildings.

The production of semi-conductor elements primarily takes place in six halls which form the core of the site.

Supply and disposal areas, such as the chemical store, gas store and tank systems which form the main part of the hazardous materials used on the site, are located at the back of the site, the so-called facility management area. The wastewater treatment plant and waste collection centre are also located here.

## Potential hazards

The release of hazardous materials caused by leaks and technical faults presents a potential hazard. Uncontrolled dispersal of these substances can lead to a contamination of water and soil, a danger to humans, fire or destruction of local site components due to deflagration or detonation (explosion). Technical and organizational measures are applied at Infineon Villach to avoid the risk of an industrial accident occurring and these are documented in a comprehensive safety document.

### **The following safety aspects are observed in particular:**

- › Media-compatible collecting basins are provided in the storage areas.
- › The avoidance of industrial accidents is of primary importance in the planning and operation of the systems.
- › Safety precautions are applied on a multi-level basis.
- › The plants are operated, maintained and checked by well-trained and skilled personnel.
- › The systems are regularly checked by external experts to ensure they meet legal regulations.
- › Infineon Technologies Austria AG has an integrated safety management system.

In extreme cases, technical faults, so-called external effects and human error, can lead to accidents which are not limited to the plant premises.



**The following hazards may be involved:**

- › Combustion gases are released during a fire. Depending on the wind strength and direction, these combustion gases may disperse beyond the borders of the premises. The effects of soot clouds and heat must be taken into account in these circumstances.
- › In the event of an explosion or technical fault, a strong pressure wave may be created and possibly flying parts released.
- › The release of substances may lead to the dispersal of hazardous gases, steam and dust which could result in soil and air contamination.

Without trivializing the risk potential of such accidents, we would like to take this opportunity again to stress the high level of safety at our Villach site. This makes it highly unlikely that the dangers of industrial accidents or technical faults, as described above, would ever occur.

Comprehensive evaluations of industrial accident scenarios did not flag up any transboundary effects in the sense of UIG § 14 on Domino Effects, i.e. interactions within the company site and beyond its borders but effects like these described cannot be ruled out entirely.



## Hazardous substances and how we deal with them

The following substances and substance categories are stored and used at Infineon Villach. They are detailed and specified according to substance category in part 1 and part 2 of appendix 5 of the current version of the Industrial Code:

Part 1 – Hazard category for substances and mixes
<b>Section ‘H’ – Health hazards</b>
H1 ACUTELY TOXIC Hazard category 1, all routes of exposure
H2 ACUTELY TOXIC – Hazard category 2, all routes of exposure – Hazard category 3, inhalation exposure route
<b>Section ‘P’ – Physical hazards</b>
P2 FLAMMABLE GASES – Flammable gases, category 1 or 2
P4 OXIDIZING GAS – Oxidizing gases, hazard category 1
P5a FLAMMABLE LIQUIDS – Flammable liquids, hazard category 1 – Flammable liquids, hazard category 2 or 3 which are maintained at a temperature above their boiling point – Other fluids with a flash point of <60° C which are maintained at a temperature above their boiling point
P5c FLAMMABLE LIQUIDS – Flammable liquids, hazard category 2 or 3, not documented under P5a and P5b
P7 SPONTANEOUSLY COMBUSTIBLE LIQUIDS AND SOLIDS – Spontaneously combustible fluids, hazard category 1 – Spontaneously combustible solids, hazard category 1
P8 OXIDIZING LIQUIDS AND SOLIDS – Oxidizing fluids, hazard category 1, 2 or 3 – Oxidizing solids, hazard category, hazard category 1, 2 or 3
<b>Section ‘E’ – Environmental hazards</b>
E1 – Hazardous to aquatic environment, hazard category acute 1 or chronic 1
E2 – Hazardous to aquatic environment, hazard category chronic 2
<b>Section ‘O’ – Other hazards</b>
O1 – Substances or mixes with hazard note EUH014
O3 – Substances or mixes with hazard note EUH029

The following substances and substance categories are stored and used. Their properties are explained in more



detail in part 2 of appendix 5 of the current version of the Industrial Code:

Part 2 – Names of substances	
Number	Substance
Number 10	Chlorine
Number 15	Hydrogen
Number 16	Hydrogen chloride
Number 18	Liquefied extremely flammable gases and natural gas
Number 19	Acetylene
Number 25	Oxygen
Number 28	Arsine
Number 29	Phosphine
Number 35	Ammonia
Number 36	Boron trifluoride

As described above, the materials needed at the Villach site are securely stored, transported and used in accordance with their hazardous properties. Deliveries are made using specially approved vehicles and transport containers. Leak and retention basins equipped with specially coated walls are present at the Villach site in order to protect securely against the unwanted release of liquids, for example in every delivery zone, in every chemical storage area and in the central chemical supply area for production.

Plant-internal transports, for example from the chemical and gas storage facility to the supply facilities for production, are conducted under strict security precautions. Further transport to the production facilities takes place using double-walled pipelines that are monitored by sensors for leak-tightness, among other things. Our production facilities are equipped with extensive safety and emergency shutoff systems activated by the control station, which is manned 24 hours a day and seven days a week. In case of an incident, the necessary emergency procedures can be initiated from the control station in the shortest possible time.



## Our professional safety management

Working in collaboration with the relevant emergency and rescue services, we have implemented all of the necessary safety and prevention measures required to prevent an on-site accident and, where this is not 100% possible, to limit any effects as much as possible. We exceed the legal regulations and official requirements in all aspects. We also monitor all of the key environment-related processes using process control technology and ongoing measurements. This means that any minor deviations from correct operation and other faults are identified at a very early stage.

The **Infineon Villach fire department** and company medical station are also on hand to help rectify any faults and tackle any potential industrial accidents. They are supported by the contingency personnel of the various divisions (electronics, mechanics, chemistry). Our plant fire department is composed of approximately 100 volunteer members, distributed across two firefighting teams and two full-time employees. It has three vehicles which are also specially equipped and ready to go into action in the shortest possible time.

Intervention takes place as quickly as possible in the event of an accident occurring. In the event of a serious industrial accident which cannot be remedied using the usual operational procedures, the Corporate Disaster Prevention Organization



(DPO) for the site is applied. Specially trained crisis managers with the authority to issue commands are always contactable and can take over the operations management with immediate effect.

To limit the effects of industrial accidents outside of the premises, alarm and hazard prevention plans are in place. In the event of an incident occurring which could have consequences beyond the borders of our site, we inform the Villach police force and the emergency services of the Villach fire brigade and Red Cross ambulance services. Information and any possible evacuation measures for the neighboring community will be issued and implemented by the specified authorities and departments. Any orders issued by the authorities or rescue services must be followed. In the event of a large-scale industrial accident, the official crisis manager for the city of Villach is responsible for coordinating all preventative and protective measures for the public, supported by the internal crisis management organization team.

This coordination between the authorities and company ensures a targeted collaboration between all of the emergency services involved and therefore a more effective protection against hazards. The authorities' protection plans for Infineon Villach are based on this.

# Protection in cases of emergencies and accidents

Due to its legal status, Infineon Technologies Austria AG, based in Villach, is required to implement suitable measures to tackle industrial accidents and limit the effects of such accidents as far as possible at the operating site. If an industrial accident occurs despite all these safety precautions, a range of technical and organizational measures is applied to limit its effects:

## **Facility to quickly alert the emergency services**

- › Manual and automatic fire detection devices
- › Automatic gas warning systems
- › Internal notification systems
- › Leakage warning systems
- › External notification systems to alert disaster services such as police, fire departments, Red Cross etc.

## **Firefighting facilities**

- › Mobile and stationary fire extinguisher appliances
- › Firefighting support from internal firefighting unit and surrounding firefighting services

## **Facilities to protect soil and groundwater**

- › Systems for the absorption and correct disposal of water-polluting liquids and waste water
- › Retention and collection basins for water used in firefighting

Infineon Villach also has a Fire Protection Code in addition to its internal alarm and hazard prevention plan.

## **In the event of an industrial accident, the following bodies would be informed:**

- › Disaster response authorities of the Villach municipal authorities
- › Specialist departments of the Carinthian state government
- › And if required: fire departments, ambulance, road maintenance unit

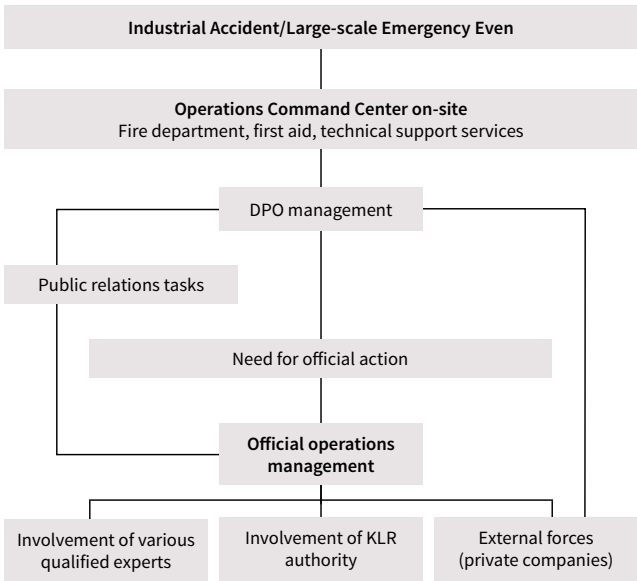
In the event of an industrial accident, information will be provided to the local population by the relevant authorities and bodies.

On June 30, 1995, a ‘General Disaster Protection Alarm Plan’ was drawn up by the Villach municipal council. It establishes the process of alerts in the event of a large-scale event in the municipal area. Constant checks are undertaken in conjunction with the DPO to ensure that this alert plan still works. Regular contact between the city of Villach’s central Disaster Control Operations Management and Infineon DPO protect against any conceivable hazards affecting the area beyond the company premises.

HEAD OF OPERATIONS	Mayor
HEAD OF DIVISION/ CENTRAL OPERATIONS MANAGEMENT	Official appointed by mayor
MUNICIPAL EMERGENCY COMMITTEE	Responsible member of the Villach town senate
	Head of municipal authorities
	Head of construction
	Head of technical operations, Villach fire department
	Departmental manager
	Representatives: – Federal Police Directorate – City Police Commando – Operational Customs Control (if required) – Liaison Officer for District Administration – Other as required (e.g. district chemist) – Staff functions S1–S6

# Operational logistics in the event of a large-scale emergency event

The following operational logistics in the event of a potential large-scale emergency have already been agreed with the relevant authorities and are tested and optimized with the relevant emergency services during repeated emergency exercises.





## Siren signals for protection in the event of a disaster

### **Warning:**

#### **3 minute continuous tone**



Impending danger!

Switch on radio or TV (ORF) and follow instructions given.

### **Alarm:**

#### **1 minute siren of increasing and decreasing intensity**



Danger!

Seek out protected area or space and follow instructions given over the radio or TV (ORF).

### **All-clear:**

#### **1 minute continuous tone**



End of danger!

Follow instructions given over the radio or TV (ORF).

### **Warning and information**

The police will make an announcement over the loud speaker if there is an emergency or accident. Switch on your radio.

Information about what to do will be issued via the regional broadcasters:

- › ORF Radio Kärnten 97.8 MHz
- › ORF Ö3 90.4 MHz

The police and fire department will provide information on

- › Rules of conduct
- › Emergency and rescue services and will issue the all-clear.



## The most important rules of conduct

- › Seek out an enclosed space!
- › Close all doors and windows to ensure that no gases, steam or smoke can enter your house/apartment!
- › Keep a wet cloth over your mouth and nose!
- › Switch off the ventilation and air-conditioning (main switch), even if you are in your car!
- › Call all children into the house/apartment! Inform any neighbors and passers-by! In the event of an emergency, take in passers-by and help children, the elderly and the disabled.
- › Don't try to collect your children from school or kindergarten! They will be looked after there!
- › Above all: stay away from the place of the accident! Onlookers often hinder the work of the emergency services and put their own health or even lives in danger.
- › Follow the instructions given by the fire brigade, police and rescue services at all times!
- › Don't block the phone lines of the fire brigade, police and rescue services with endless questions!
- › Take note of announcements made over the radio or loudspeaker! In this way, you can find out what is happening and receive the all-clear.
- › Please contact your doctor or the medical emergency services if you have any health concerns!

## Operating data and contact partners at Infineon Villach

### **Operating site and name of proprietor**

Infineon Technologies Austria AG

Villach site

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### **Contact Partner for Corporate Environmental Protection and Occupational Safety**

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Specific details of the alarm system and off-site measures can be taken from the external emergency plan which is compiled by the relevant authorities. Additional information and insight into the safety report can be obtained from the relevant contacts at the level of the company or authorities.

This brochure can also be consulted at  
[www.infineon.com/austria](http://www.infineon.com/austria).



This brochure has been printed on environmentally-friendly paper.



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