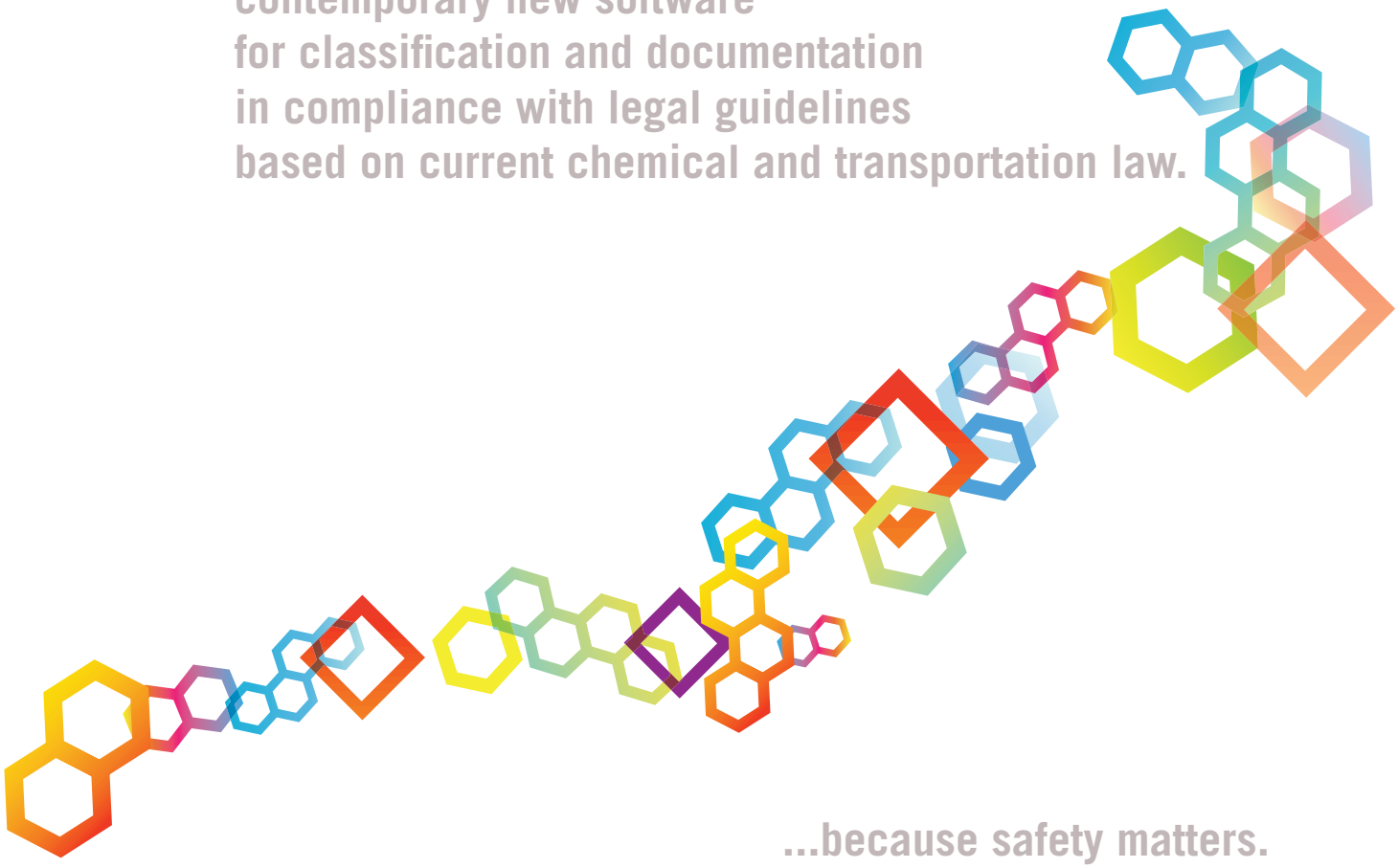
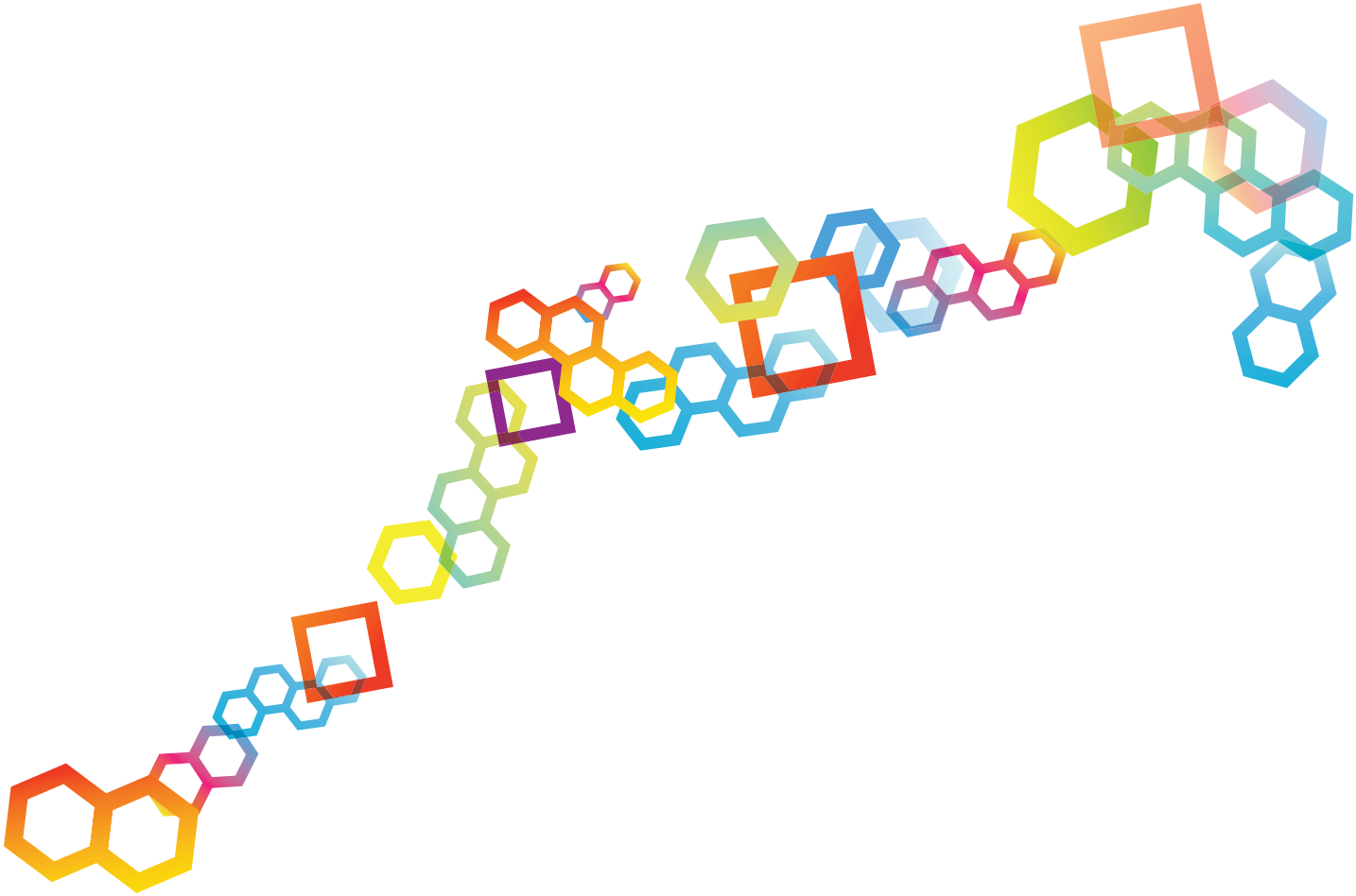
CHEMDOX

A simple way to make working easier.

CHEMDOX
contemporary new software
for classification and documentation
in compliance with legal guidelines
based on current chemical and transportation law.



...because safety matters.

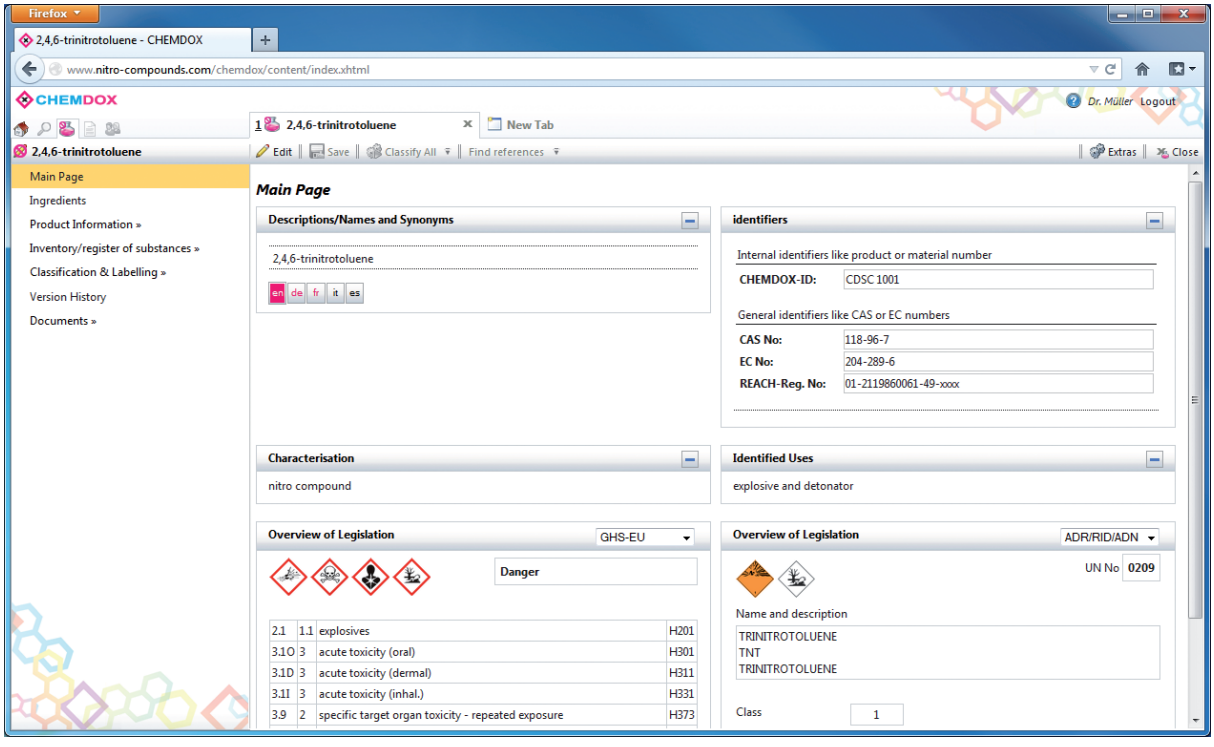


Dear Safety Expert,

We are proud to present to you CHEMDOX, an innovative software that uses modern technologies to support you in the creation of legally sound classifications and safety related documents.
Developed to cope with the general requirements of chemical and transportation law while retaining maximum user-friendliness, CHEMDOX helps experts achieve an important objective:
high quality documents and with them the feeling of security knowing that the job has been handled right.

GHS
SDS
REACH
DSD / DPD
ADR / RID / ADN
IMDG
ICAO
WEL / BMGW / OEL / BLV

1. **Research substances, create own products**
2. **Rules-based classification**
3. **Automated creation of documents**
4. **Administration of created documents**



Our program:
helping you do it all better.

1 Research substances, create own products

CHEMDOX is built around an extensive, constantly updated database.

It is simple to use for creating your own products as well as for researching relevant substance data for immediate re-use:

a) All **legal classifications** denoted in the **CLP-Regulation,** Annex VI. More than 4400 substances including their hazard classes, the H-phrases in correspondence with the **GHS-classification** (Table 3.1) and the R- and S-phrases (table 3.2, corresponding with the Dangerous Substances Directive DSD).

b) All **classifications** of substances registered by the **ECHA** and published on their website can be imported. Including their key property data.

c) **Occupational exposure limit values** (WELs / OELs) as well as **biological limit values** of substances / substance groups as denoted in various **national regulations** and **EU directives**.

d) Data regarding specific national regulations, such as **water law** (WGK) or **airborne pollutants** (VOCs, TA Luft) and other **dangerous substances** as well as **carcinogenic substances** (NTP, IARC).

e) All classifications of substances denoted in a **transport regulation** (ARD/RID/ADN, DOT, IMDG, ICAO).

2 Rules-based classification

The heart of CHEMDOX lies in the **classification** of your custom products (substances, mixtures) based on various **national and international regulatory laws** as well as globally harmonized rules such as the GHS **(Purple Book)** or the UN Model Regulations for transport law **(Orange Book).**

This involves the automatic identification of hazardous characteristics, if present, using rules and algorithms contained in the program, including query of physico-chemical and (eco-)toxicological data and accounting for concentrations of hazardous ingredients in mixtures.

Chemicals law
REAL classification and labelling based on GHS (EU-CLP, UN, US), in accordance with the European Preparation Directive (DPD) and according to OSHA (as NFPA 704 and HMIS III).

Transportation law
Classification according to the regulations for various transportation modes (ADR/RID/ADN, DOT, IMDG, ICAO) that are based on the UN Model Regulations and specific specifications.

Specific national regulations
Water law, technical rules for storage, VOCs, aerosol directive, occupational exposure limit values, biological limit values, REACH-substances (importable), etc.

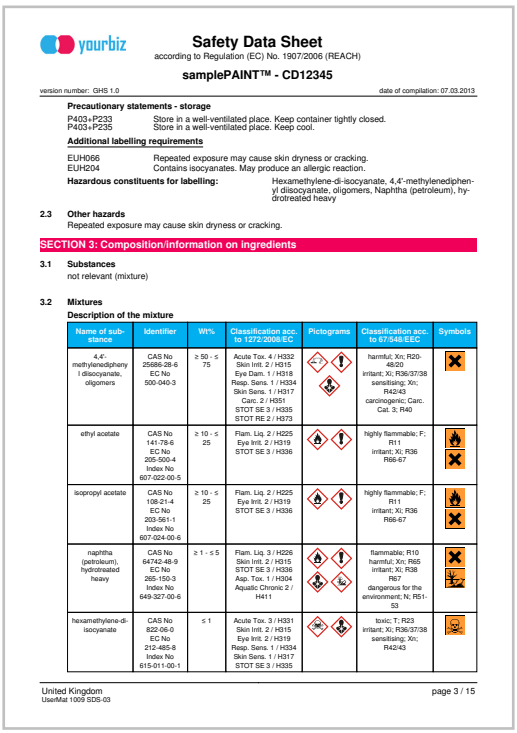
Our program:
helping you do it all better.

3 Automated creation of documents

Create **safety data sheets, exposure scenarios, labels or operation instructions** with CHEMDOX – with utter simplicity and ready for international use. **With several CHEMDOX country packages.**

Through CHEMDOX we've developed a piece of software that allows any user to store custom rules for how **phrases** are output, **including** those used in **translations**. Templates are available to ensure that the documents look right, with plenty of customization options.

Distinguish yourself from the competition by using your company logo, colors and typeface to give your documents a sheen of **professionalism, competence and security.**



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Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

samplePAINT™ - CD12345

version number: GHS 1.0 date of compilation: 07.03.2013

Precautionary statements - storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.

Additional labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH204 Contains isocyanates. May produce an allergic reaction.

Hazardous constituents for labelling: Hexamethylene-di-isocyanate, 4,4'-methylenediphenyl diisocyanate, oligomers, Naphtha (petroleum), hydrotreated heavy

2.3 Other hazards
Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 Substances
not relevant (mixture)

3.2 Mixtures
Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to 1272/2008/EC	Pictograms	Classification acc. to 67/548/EEC	Symbols
4,4'-methylenediphenyl diisocyanate, oligomers	CAS No 25686-28-6 EC No 500-040-3	≥ 50 - ≤ 75	Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 Carc. 2 / H351 STOT SE 3 / H335 STOT RE 2 / H373		harmful; Xn; R20-48/20 irritant; Xi; R36/37/38 sensitising; Xn; R42/43 carcinogenic; Carc. Cat. 3; R40	
ethyl acetate	CAS No 141-78-6 EC No 205-500-4 Index No 607-022-00-5	≥ 10 - ≤ 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336		highly flammable; F; R11 irritant; Xi; R36 R66-67	
isopropyl acetate	CAS No 108-21-4 EC No 203-561-1 Index No 607-024-00-6	≥ 10 - ≤ 25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336		highly flammable; F; R11 irritant; Xi; R36 R66-67	
naphtha (petroleum), hydrotreated heavy	CAS No 64742-48-9 EC No 265-150-3 Index No 649-327-00-6	≥ 1 - ≤ 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411		flammable; R10 harmful; Xn; R65 irritant; Xi; R38 R67 dangerous for the environment; N; R51-53	
hexamethylene-di-isocyanate	CAS No 822-06-0 EC No 212-485-8 Index No 615-011-00-1	≤ 1	Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 STOT SE 3 / H335		toxic; T; R23 irritant; Xi; R36/37/38 sensitising; Xn; R42/43	

United Kingdom
UserMat 1009 SDS-03

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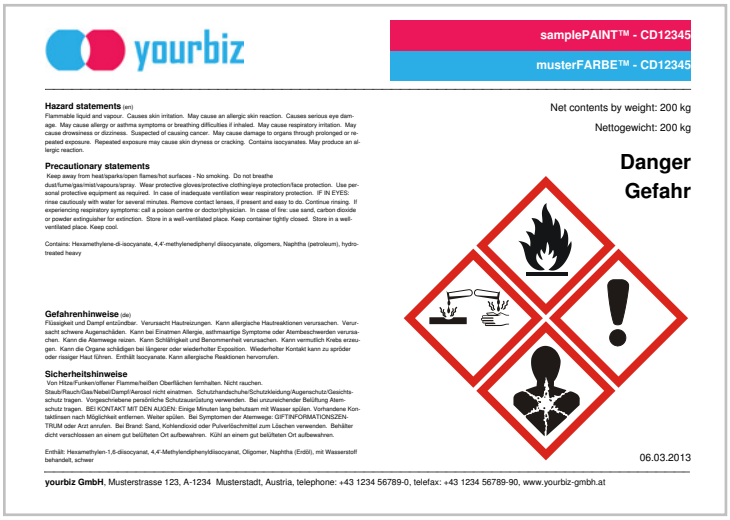

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Hazard statements (en)
Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking. Contains isocyanates. May produce an allergic reaction.

Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces - No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If experiencing respiratory symptoms: call a poison centre or doctor/physician. In case of fire: use sand, carbon dioxide or powder extinguisher for extinction. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Contains: Hexamethylene-di-isocyanate, 4,4'-methylenediphenyl diisocyanate, oligomers, Naphtha (petroleum), hydrotreated heavy

Gefahrenhinweise (de)
Flüssigkeit und Dampf entzündbar. Verursacht Hautreizungen. Kann allergische Hautreaktionen verursachen. Verursacht schwere Augenschäden. Kann bei Einatmen Allergie, asthmaartige Symptome oder Atembeschwerden verursachen. Kann die Atemwege reizen. Kann Schläfrigkeit und Benommenheit verursachen. Kann vermutlich Krebs erzeugen. Kann die Organe schädigen bei längerer oder wiederholter Exposition. Wiederholter Kontakt kann zu spröder oder rissiger Haut führen. Enthält Isocyanate. Kann allergische Reaktionen hervorrufen.

Sicherheitshinweise
Von Hitze/Funken/offener Flamme/heißen Oberflächen fernhalten. Nicht rauchen. Staub/Rauch/Gas/Nebel/Dampf/Aerosol nicht einatmen. Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz tragen. Vorgeschriebene persönliche Schutzausrüstung verwenden. Bei unzureichender Belüftung Atemschutz tragen. BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen. Bei Symptomen der Atemwege: GIFTINFORMATIONSZENTRUM oder Arzt anrufen. Bei Brand: Sand, Kohlendioxid oder Pulverlöschmittel zum Löschen verwenden. Behälter dicht verschlossen an einem gut belüfteten Ort aufbewahren. Kühl an einem gut belüfteten Ort aufbewahren.

Enthält: Hexamethylen-1,6-diisocyanat, 4,4'-Methylendiphenyldiisocyanat, Oligomer, Naphtha (Erdöl), mit Wasserstoff behandelt, schwer

Net contents by weight: 200 kg
Nettogewicht: 200 kg

Danger
Gefahr

06.03.2013

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4 Administration of created documents

CHEMDOX ensures that the documents you've generated can be tracked from start to finish at any time, with a chronology showing who changed what and when.

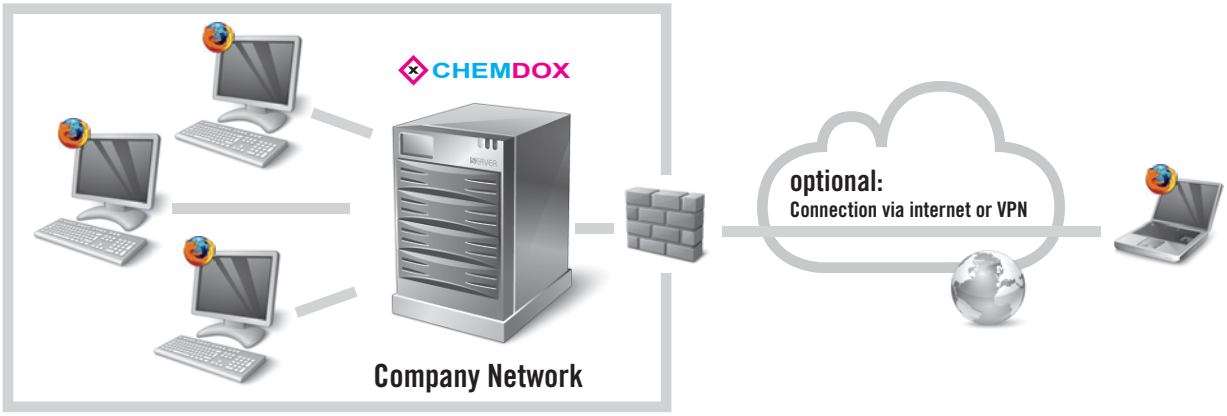
This enhances the efficiency through **automated processes** and it also raises the **quality and security.** Sources of potential errors are reduced.

The future firmly in view.

The current technology is designed to be ready for long-term improvements and maintenance. That means you're ready for the future too. CHEMDOX is also designed to be **platform neutral** and is not tied to specific hardware or operating system.
CHEMDOX is a **client/server application,** accessible with a browser, designed both for the stand-alone workstation and distributed work on corporate networks.

Server Installation

CHEMDOX is installed on your company's server and can then be used by **all computers on the company network**.
The sole prerequisite is an internet browser.
Using a secure internet connection, you can then log into and work with your CHEMDOX installation even remotely.



Workstation Installation

Of course you may also choose to simply install CHEMDOX on your workstation. Your working experience with CHEMDOX will stay all same.

Technology

All elements of CHEMDOX are built around **current technological standards.**
This ensures not just the performance capability and long term operational readiness of CHEMDOX; it also leads to complete **platform neutrality.**
You have complete freedom to select your hardware and operating system of choice for your CHEMDOX installations. From a dedicated server to an installation on a laptop, from **Linux over MacOS to Windows,** the choice is yours.

More than just software.
A true help.

CHEMDOX provides safety

Why wait any longer – REAL classification based on GHS.
Documentation in compliance with legal guidelines and the certainty that nothing is missing or incomplete due to manual errors.
Enjoy the good feeling of being on the safe side with your documents.

CHEMDOX saves time and money

Automated processes lead faster to the wanted results. **Changes of regulations and adaption of rules** are maintained in one central location via **automatic updates** and can be applied to all substances and mixtures.
Experts get optimal support, transparency, and traceability.

CHEMDOX speaks many languages

Ready for international use: several country packages are available for CHEMDOX. These contain identifications of substances and phrases **- correct technical terminology -** for documents in the relevant languages, as well as **national regulations** such as occupational exposure limits. Everything at a level that will be well received by your international partners.

CHEMDOX is flexible

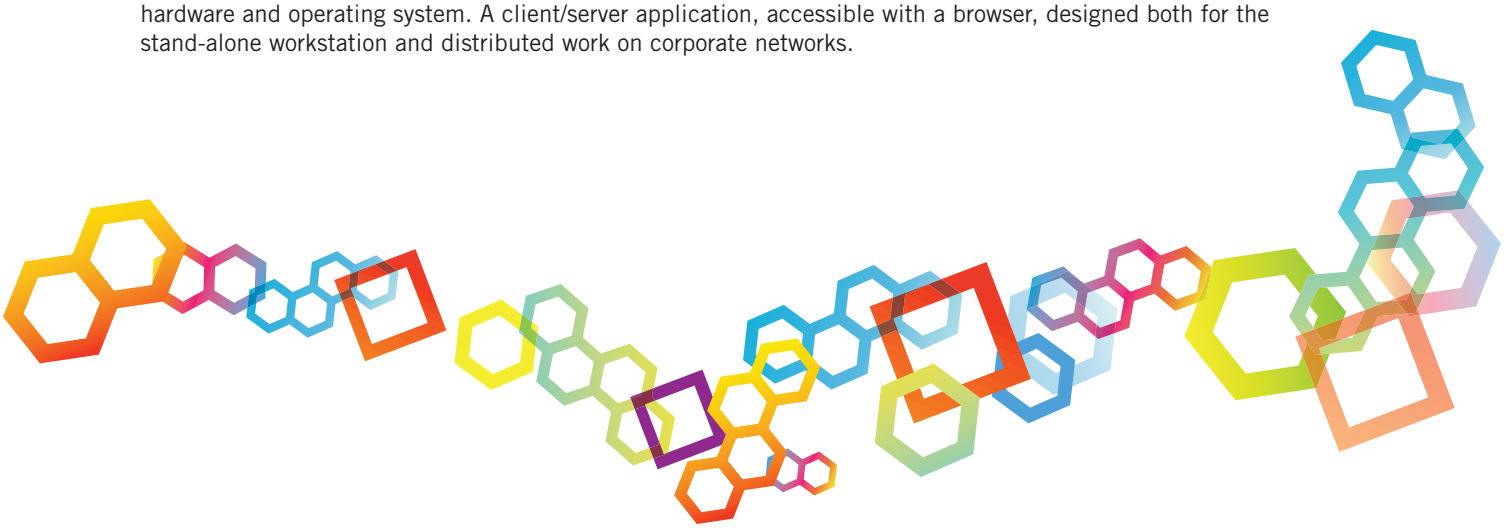
Layouts, company logos, rules, database values, tables etc. can be defined and used individually in templates.
One solution for multiple products, brands, and sites.

CHEMDOX upgrades your appearance

All documents not only legally sound, but with a good look. Your logo always on the right spot, your corporate colors integrated into the layout - giving you a **professional presentation and inspiring confidence in your company and the quality of your products.**

CHEMDOX has the future firmly in view

State of the art technology is the basis for this future proof solution. Ensuring maintainability and continued development on a longterm scale. Platform independence gives you the freedom of choice when it comes to hardware and operating system. A client/server application, accessible with a browser, designed both for the stand-alone workstation and distributed work on corporate networks.



CHEMDOX

Always ready to go:

Lots of things may sound terrific in a folder.
But it really gets exciting once you experience the benefits for yourself, such as through a live presentation of CHEMDOX.

Our service and our team for a presentation in your company.

Our team would be glad to hear from you, either by telephone or email, with any questions or appointment requests.

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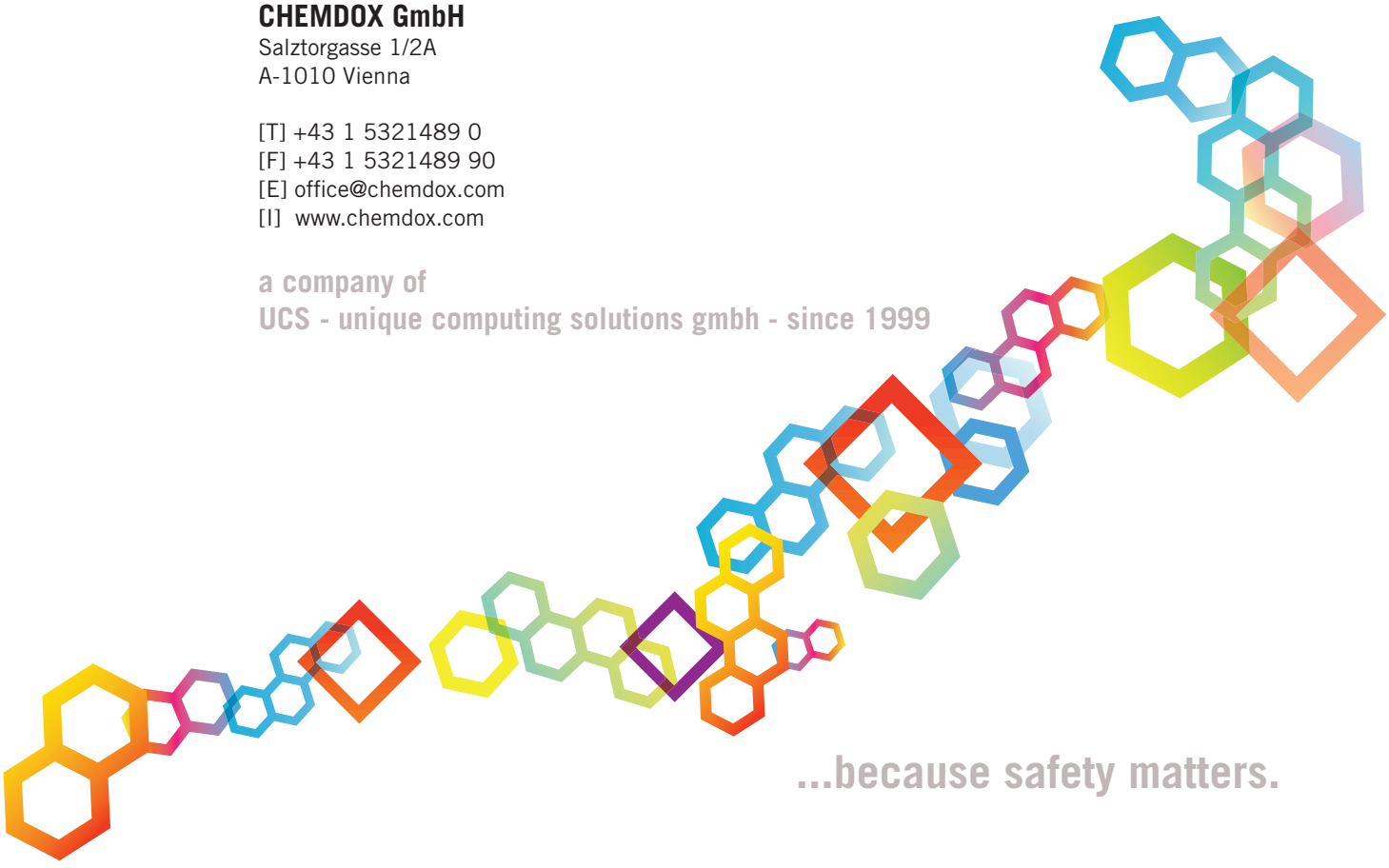

...because safety matters.