

2022 ARCHROMA SUSTAINABILITY AWARDS

Application Form

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3. Title of the application:

The focused-initiatives approach to help 6 years ZERO LTA in Tianjin/China and through an incident-free workplace to support business growth.

4. Award category

I/we apply for the following category (select only one per form, 2 forms maximum):

- Business Win
- Diversity & inclusion
- Environment
- Excellence
- Innovation
- Safety First
- Sustainable partnership

5. Elevator pitch

Tianjin is producing wide range products for BPT, PP and CAS serving both domestic and global market. The site has been using the focused-initiatives approach to address safety first on top of agenda, and successfully passed through 32 local regulatory inspections since beginning of 2021, and achieved zero LTA in last 6 years.

6. Describe how your project and its impact help achieving the category-specific criteria

(Max. 1000 words)

Self-reflection on 3 key success factors

■ **Comprehensive Safety Culture – Everyone is accountable. Leaders must have “walking on edge” consciousness.**

- 1001 reasons to be safe, for the sake of ~220 employees and their families / friends.
- Comply with safety requirements and keep operation procedures updated, communicated and implemented.
- Perform regular SHE trainings. Last year, we organized more than 20 times training sessions and trained around 2000 person.times.

■ **Profound Safety Knowledge – Encouraging all employees to actively learn and engage**

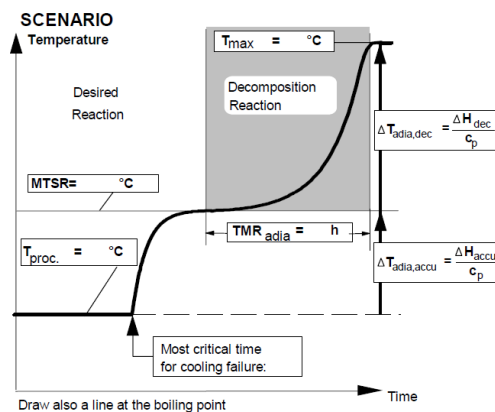
- RISK= Likelihood x Exposure x Consequence. No complacency!!!
- Perform ZHA/HAZOP/Process Criticality /LOPA/... etc, to help to identify risks and control measures. For example:

Criticality Assessment

Our technic team reviewed the safety data of our products and found a key element (Td24) was missing in some process. So, we complemented these data.

So far, the following tests/assessments have been completed.

Dyes	3 typical dyes (disperse, reactive, acid)	whole chemical process risk assessment
	10 kinds of diazo-reaction mixtures	Td24 testing
Chemicals	4 typical polymerizations (VAM, STYR, ACYS, EPN)	whole chemical process risk assessment



- Everybody involved – to ensure control measures in use, (before Pro-Sapien, site has tailor made reporting system in which last 3 years reported 725 deviations, 92% closed with PDCA

loop), we developed a more detailed methodology to identify the risk, and risk is combination from likelihood, exposure and consequence.

- 1) Reviewed the existing risk portfolio, and re-classified them by above methodology.
 - Concluded 164 risks (materials, processes, activities) and all of them has responsible person.
 - All of them are with reviewed preventative measures and will be regularly checked by the responsible colleagues to ensure their effectiveness.

Risk Classification	Total		Dyes Synthesis Plant	Dyes Finishing Plant	Chemicals Plant	WWTP	Warehouse	Utility	Maintenance	Other Department
	0	0%	0	0	0	0	0	0	0	0
	4	2%	0	0	4	0	0	0	0	0
	112	68%	15	12	23	13	8	12	14	15
	48	29%	11	9	7	3	1	8	2	7
	0	0%	0	0	0	0	0	0	0	0
Summary	164	100%	26	21	34	16	9	20	16	22

■ **Focused SHE Programs – Having “accomplishment belongs to past, working harder belongs to future” attitude**

- Government Safety Inspections, Internal and 3rd party safety audit.
Continuous improvement to adapt to the rapidly updated China regulations. In the recent 5 years, most of the regulations related to safety have been updated and more new regulations & standards were issued and came into effect. Especially, in April 2020, a Three-year Action Plan which focusing on improving safety condition of chemical industry was launched in China. Tianjin team took quick response to successfully adapt to the new requirements. For example, since the beginning of 2021, we have received at least 32 safety checks by local authority.
- SIS/Automation upgrades
- Agile fire brigade in place
- SHE Meetings and MAKExcellence
- COVID-19 measures

7. Describe how your project supports “The Archroma Way to a Sustainable World: Safe, efficient, enhanced, it’s our nature” (Max. 1000 words)

With This focused-initiatives approach, which creates the continuous improvement momentum on safety, Tianjin site is providing a safe workplace to our colleagues here, which shows the fulfillment of “**1001 Reasons to Work SAFE**”.

8. Describe how your project demonstrates the company mindset “Everybody sells!” supported by our ACTS (Max. 1000 words)

6 years without LTA, and no major deviation from plenty of inspections enabled the incident free workplace of our site, this is enabling sustainable attraction to employees, good reputation to interested parties, reliable supply to our customers.

I declare to have read and accepted the privacy policy: <https://www.archroma.com/archroma-sustainability-awards-policy>



In case the submitted project belongs to a team, I declare that I have the authorization of all of them and that they have read and agreed with the privacy policy (attach to the submission!!!).